



PRODUCT CATALOG

PUMP MOTORS FOR SWIMMING POOLS,
SPAS AND JETTED TUBS



What **if**... you could save time installing

The Century® VGreen® variable speed motor is a durable TEFC replacement motor designed to deliver premium energy savings from 40 percent to 80 percent versus a standard single speed motor.

The VGreen motor can replace any single speed motor without replacing the pump, turning any pool into a high-efficiency system that is better for the environment and lowers the cost of pool ownership.

Regulatory Compliance



Energy Efficient



Quick and Easy Installation



115/230 Volts



Simple to Program



Versatility



Auxiliary Relays



Automation Compatible





ng a pool motor?

Century® premium pool motors are built to last and designed to be installed quickly and easily. See page 3 for more details.



CENTURY® LEISURE WATER CATALOG

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*Ownership of all trademarks and trade names are expressly claimed on the back cover of this catalog.

Centurion[®] PRO
PREMIUM POOL & SPA MOTORS

56 FRAME CENTURION[®] PRO PREMIUM POOL AND SPA MOTORS

Durable and easy-to-install, no other replacement pump motor comes close to a superbly crafted Centurion[®] PRO pool and spa motor.

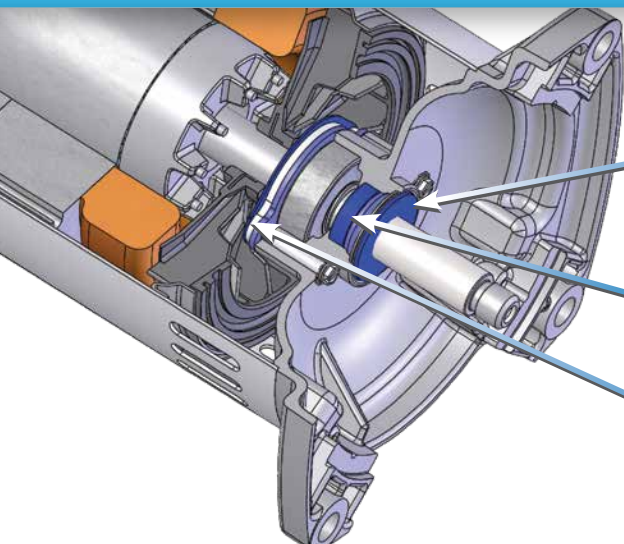
The new Triple Seal[™] protection feature is designed into the pump end of the motor to protect the bearings from water, pests and debris, extending the life of the motor.

FEATURES

- Premium sealed 203 bearings both ends
- Easy to install with an open and accessible terminal board & wiring compartment
- New Triple Seal protection on pump-end bearing
- Voltage change device
- Definitive shaft access (7/16" wrench)
- Auto protector
- UL 1081 design
- 60 Hz
- 50°C ambient
- Rotation: CCW pump end
- 303 stainless steel threaded shaft
- Open dripproof



Now available in 48 frame and 56 frame. See page 5-7 for details.



1

THE CENTURY[®] SEAL

The first line of defense in preventing moisture from washing the grease out of a bearing.

2

IP-55 RATED LIP SEAL

Located behind the Century seal to ensure any moisture that might make it past is stopped in its tracks.

3

BEARING LOCK PLATE

To protect the inboard seal of the bearing, a sealing system is integrated into the bearing lock plate, preventing moisture ingress to the back side of the bearing.

VGREEN® VARIABLE SPEED MOTORS

ENERGY EFFICIENT REPLACEMENT MOTORS

APPLICATIONS:

Residential and Light Commercial Pools



FEATURES:

- Easy to Install
- Full Variable Speed (600-3450 RPM)
- Freeze Protection
- Single Phase
- Sealed Ball Bearings
- Service Factor 1.0
- Up to 80% Energy Savings
- Rotation: CCW Pump End
- 303 Stainless Shaft
- TEFC Construction
- Install on Existing Single, Two-Speed and Variable Speed Pumps
- UV and Rain-Proof Enclosure
- Class F Insulation

VGREEN® 085 / 165 PRODUCT LINE FEATURES:

- Digital Inputs for Third Party Automation
- Easy to Program LED Display

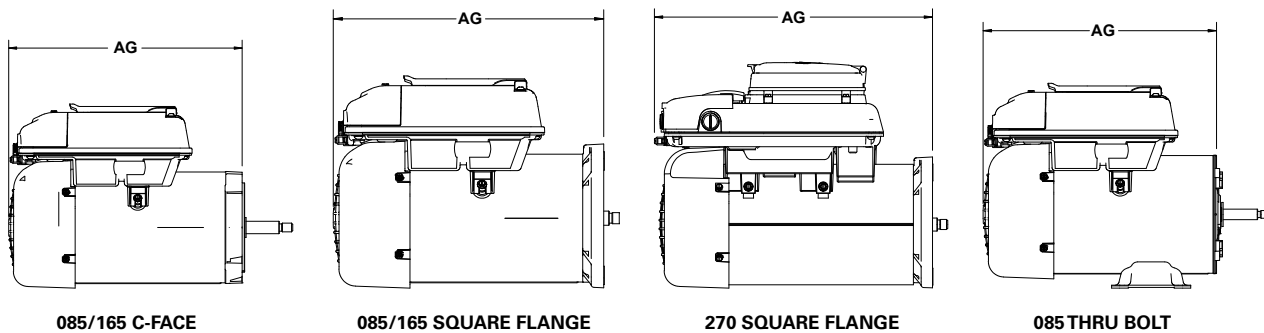
VGREEN 270 PRODUCT LINE FEATURES:

- Auxillary Load Capacity
- Power Factor Correction
- Battery Backup
- LCD Display with Backlight

TOTAL HORSEPOWER	VGREEN PRODUCT LINE	VOLTS	AMPS	FLANGE	HERTZ	AMBIENT TEMP	COLOR	APPROX "AG"	STOCK NUMBER	NOTES
0.85 MAX	085	115	0.4-10.0	SQUARE	50/60 Hz	40°C	BLACK	12.08	ELV08SQ	4
0.85 MAX	085	115	0.4-10.0	THRU BOLT	50/60 Hz	40°C	BLACK	11.23	ELV08TB	4
0.85 MAX	085	115	0.4-10.0	C-FACE	50/60 Hz	40°C	BLACK	11.78	ELV08C	4
0.50 MIN - 1.65 MAX	165	208-230	10.5-10	SQUARE	50/60 Hz	50°C	BLACK	12.08	ECM16SQU	4
0.50 MIN - 1.65 MAX	165	208-230	10.5-10	SQUARE	50/60 Hz	50°C	ALMOND	12.08	EPA16SQ	4
0.50 MIN - 1.65 MAX	165	208-230	10.5-10	C-FACE	50/60 Hz	50°C	BLACK	11.78	ECM16CU	4
0.75 MIN - 2.7 MAX	270	230	10.5	SQUARE	60 Hz	50°C	BLACK	13.63	ECM27SQU	4
0.75 MIN - 2.7 MAX	270	230	10.5	C-FACE	60 Hz	50°C	BLACK	3.35	ECM27CU	4

VGREEN PARTS & ACCESSORIES

STOCK NUMBER	NAME	DESCRIPTION
VL100	VLINK® WIRELESS USER INTERFACE	Set, adjust and monitor pump motor schedules from mobile devices.
2517501-001 (Gray) 2517501-002 (Black)	VGREEN AUTOMATION ADAPTER KIT - to be discontinued VGREEN AUTOMATION ADAPTER KIT	Provides interface capability with 3rd party automation for VGreen 270 and advanced connection capabilities for VGreen 165 and VGreen 085.
2512723-001	VGREEN 270 USER INTERFACE OFF-BOARD MOUNTING KIT	Allows remote mounting of VGreen 270 user interface.
2517030-001	VGREEN 270 REPLACEMENT USER INTERFACE	Replacement user interface for VGreen 270.
2520652-001	VGREEN 165/085 AFUI KIT	Adds digital user interface control capability to VGreen 165 and VGreen 085.



NOTES	
4	This motor meets the California Energy Commission Title 20 Section 1605.3(g)5 requirements for energy efficiency

PREMIUM MOTORS
 LEGACY MOTORS
 OEM DIRECT REPLACEMENT MOTORS
 GENERAL INFORMATION
 PARTS AND ACCESSORIES
 INDEX



WIRELESS MOTOR INTERFACE



THE NEXT GENERATION OF THE MOTOR USER INTERFACE EXPERIENCE FROM REGAL.

Always thriving on innovation, Regal now offers wireless capability for VGreen® variable speed motors. VLink® wireless motor interface offers the ability to set, adjust, and monitor pump motor schedules from mobile devices. The program flexibility allows the user to monitor and manage energy consumption as well as set custom overrides for parties and cleaning. VLink wireless motor interface works with both Android™* and iOS™* mobile devices. Now energy conscious pool owners have the ability to wirelessly monitor and manage their VGreen pump motor anytime anywhere!

FEATURES:

- Ability to set, adjust, and monitor schedule from anywhere
- Monitor and manage monthly energy consumption
- Set preset overrides for parties and cleaning
- Mobile apps for Android and iOS
- Desktop and mobile friendly web page

SYSTEM REQUIREMENTS:

- Wi-Fi Router - 2.4GHz
- Android 4.4 or higher and iOS v8 or higher
- Century® VGreen® Variable Speed Motor

PACKAGE INCLUDES:

- 1 Wireless adapter and mounting plate
- 2 Communication connectors
- 1 18' Communication cable
- 1 Watertight communication cable fitting
- 2 Mounting screws & wall anchors



STOCK NUMBER	COMPATIBLE STOCK MOTOR	TOTAL HORSE POWER	APPS
VL100	ECM16SQU	1/2 Min. to 1.65 Max.	Android iOS
	ECM16CU	1/2 Min. to 1.65 Max.	
	EPA16SQ	1/2 Min. to 1.65 Max.	
	ELV08SQ		
	ELV08C		
	ELV08TB	3/4 Min. to 2.7 Max.	
ECM27SQ			
ECM27CU	3/4 Min. to 2.7 Max.		

*Attribution statement appears on last page.

48 FRAME CENTURION® PRO PREMIUM REPLACEMENT POOL MOTORS

NOW AVAILABLE WITH TRIPLE SEAL™ PROTECTION

APPLICATIONS:

Residential and Light Commercial Pools

Centurion® PRO
PREMIUM POOL & SPA MOTORS



HSQ125

HST110

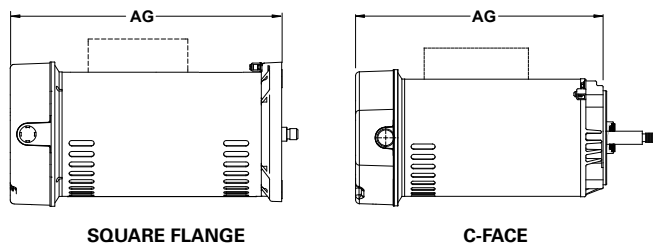
FEATURES:

- Easy to Install
- Premium Sealed 203 Bearings Both Ends
- New Triple Seal™ Protection on Pump-End Bearing
- Voltage Change Device
- Easy Shaft Access (7/16" wrench)
- Auto Protector
- UL 1081 Design
- 50°C Ambient
- 60 Hz
- Rotation: CCW Pump End
- Stainless Shaft
- Open Dripproof
- Service Factor 1.0

TOTAL HP	VOLTS	AMPS	FLANGE	INSULATION	FRAME	STOCK NUMBER	CENTURY® CROSS REFERENCE	NIDEC®* / U.S. MOTORS®** CROSS REF	APPROX "AG"
0.95	115/230	12.2/6.1	SQUARE	B	48Y	HSQ095	SQ1052/USQ1072	ASQ095	11.89
1.25	115/230	14.8/7.4	SQUARE	F	48Y	HSQ125	SQ1072/USQ1102	ASQ125	12.26
1.65	115/230	18.8/9.4	SQUARE	F	48Y	HSQ165	SQ1102/USQ1152	ASQ165	13.39
2.20	230	9.7	SQUARE	B	48Y	HSQ220	SQ1152/USQ1202	ASQ225	13.41
2.60	230	11.4	SQUARE	B	48Y	HSQ260	SQ1202/USQ1252	ASQ260	14.16
0.80	115/230	10.8/5.4	C-FACE	B	56J	HST080	ST1052/UST1072	blank	10.35
1.10	115/230	13.6/6.8	C-FACE	B	56J	HST110	ST1072/UST1102	AST095	10.72
1.50	115/230	17.2/8.6	C-FACE	B	56J	HST150	ST1102/UST1152	AST125	11.84
2.25	115/208-230	20.4/10.9-10.2	C-FACE	B	56J	HST225	ST1152/UST1202	AST165/AST225	13.68
2.75	208-230	12.3-11.3	C-FACE	B	56J	HST275	ST1202/UST1252	AST275	13.68

*Attribution statement appears on last page.

- 1 THE CENTURY® SEAL**
The first line of defense in preventing moisture from washing the grease out of a bearing.
- 2 IP-55 RATED LIP SEAL**
Located behind the Century seal to ensure any moisture that might make it past is stopped in its tracks.
- 3 BEARING LOCK PLATE**
To protect the inboard seal of the bearing, a sealing system is integrated into the bearing lock plate, preventing moisture ingress to the back side of the bearing.



SQUARE FLANGE

C-FACE

56 FRAME CENTURION® PRO PREMIUM REPLACEMENT POOL MOTORS

NOW AVAILABLE WITH TRIPLE SEAL™ PROTECTION

APPLICATIONS:

Residential and Light Commercial Pools

Centurion® PRO
PREMIUM POOL & SPA MOTORS




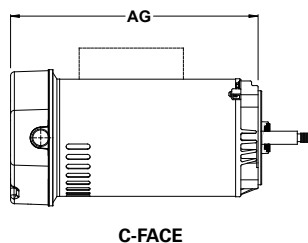
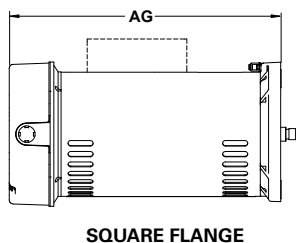
FEATURES:

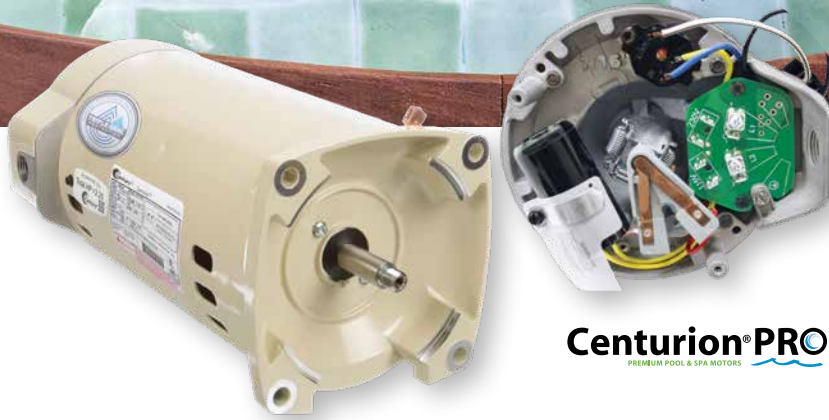
- Easy to Install
- Premium Sealed 203 Bearings Both Ends
- New Triple Seal™ Protection on Pump-End Bearing
- Voltage Change Device
- Easy Shaft Access (7/16" wrench)
- Auto Protector
- UL 1081 Design
- 50°C Ambient
- 60 Hz
- Rotation: CCW Pump End
- Stainless Shaft
- Open Dripproof
- Service Factor 1.0

TOTAL HORSEPOWER	VOLTS	AMPS	FLANGE	INSULATION	FRAME	STOCK NUMBER	CENTURY® CROSS REFERENCE	Nidec® / U.S. Motors® Cross Ref.
0.95	115/230	5.4/10.8	SQUARE	F	56Y	HBC095	B2852, B2846, B845	ASB846, ASB845
1.25	115/230	6.6/13.2	SQUARE	F	56Y	HBC125	B2853, B2847V1, B2661	ASB847, ASB661
1.65	115/230	8.0/16.0	SQUARE	F	56Y	HBC165	B2854, B2848, B2841V1	ASB848, ASB841
2.20	230	10.0	SQUARE	F	56Y	HBC220	B855, B849, B2842, B2858	ASB858, ASB842
2.60	230	11.5	SQUARE	F	56Y	HBC260	B2840, B2748, B2843	ASB748, ASB843
3.45	208-230	15.0-13.6	SQUARE	F	56Y	HBC345	B2844	
0.80	115/230	4.4/8.8	C-FACE	F	56J	HBC080	B126, B227SE, B657	
1.10	115/230	6.0/12.0	C-FACE	F	56J	HBC110	B127, B228SE, B638	ASB126, ASB657
1.50	115/230	7.2/14.4	C-FACE	F	56J	HBC150	B128, B229SE, B654	ASB127, ASB638
2.00	115/230	9.2/18.4	C-FACE	F	56J	HBC200	B129, B230SE, B796	ASB128, ASB654
2.40	230	10.5	C-FACE	F	56J	HBC240	B130, B231SE, B809	ASB129, ASB796
3.45	230	14.1	C-FACE	F	56J	HBC345	B131, B818	ASB809, ASB130

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- 2 IP-55 RATED LIP SEAL**
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- 3 BEARING LOCK PLATE**
To protect the inboard seal of the bearing, a sealing system is integrated into the bearing lock plate, preventing moisture ingress to the back side of the bearing.



Centurion[®] PRO
PREMIUM POOL & SPA MOTORS

ALMOND CENTURION[®] PRO PREMIUM REPLACEMENT POOL & SPA MOTORS

COMPATIBLE WITH POPULAR PENTAIR* ALMOND PUMPS

Durable and easy-to-install, no other replacement pump motor comes close to a superbly crafted Centurion[®] PRO pool and spa motor.

The new Triple Seal[™] protection feature is designed into the pump end of the motor to protect the bearings from water, pests and debris, extending the life of the motor.

FEATURES

- Long lasting with Triple Seal[™] protection to prevent water and debris intrusion
- Popular ALMOND color
- Fast and easy installation with the open and accessible terminal board and wiring compartment
- Premium sealed 203 bearings both ends
- Definitive shaft access (7/16" wrench)
- Voltage change device
- Auto protector
- UL 1081 design
- 60 Hz
- 50°C ambient
- Rotation: CCW pump end
- 303 stainless steel threaded shaft
- Open dripproof



THP	RPM	Volts	Frame	Flange	Century [®] Stock Number	Century Black Cross Ref.	Century Almond Cross Ref.	Pentair [®] * TEFC Cross Ref.	Pentair OEM Motor Cross Ref.	Pentair OEM Pump Cross Ref.
1.25	3450	230/115	56Y	Square	HBA125	B2661	BPA449V1	354803S	011512/ 011579 010517/011772	WFE-3/WF-3 WFE-24/WF-24
1.65	3450	230/115	56Y	Square	HBA165	B2841V1	BPA450V1	354721S	011513/011580 011518/011773	WFE-4/WF-4 WFE-26/WF-26
2.20	3450	230	56Y	Square	HBA220	B2842	BPA451V1	354823S	011514/011581 011519/011774	WFE-6/WF-6 WF-28/WF-28
2.60	3450	230	56Y	Square	HBA260	B2843	BPA452V1	354813S	011515/011582 011520/011775	WFE-8/WF-8 WFE-30/WF-30
3.45	3450	208-230	56Y	Square	HBA345	B2844	BPA453V1	354817S	011516/011583	WFE-12

*Attribution statement appears on last page.

GUARDIAN® POOL MOTORS

VIRGINIA GRAEME BAKER (VGB) COMPLIANT POOL MOTORS WITH SAFETY VACUUM RELEASE SYSTEM (SVRS)



USQG1072A

APPLICATIONS:

Residential Pools

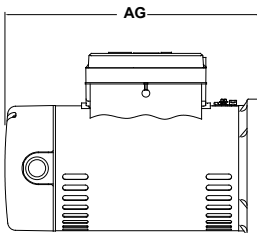
FEATURES:

- Easy to Install
- Auto-Reset
- Auto-Calibration
- Sealed Ball Bearings
- Stainless Shaft
- Single Speed
- Nerve Center (Lighting Sequence)
- 50°C Ambient
- 60 Hz
- Single Phase
- Run/Restart/Rest/Bypass Mode
- Tamper-Resistant Housing
- Compatible with all Flow Rates
- 3450 RPM
- Threaded Shaft
- Class B Insulation

Guardian® motors comply with requirements for safety vacuum release systems in the Virginia Graeme Baker Pool and Spa Safety Act of 2007. Guardian motors on this page pass ASME A112.19.17 SVRS standard.

Guardian motors will not prevent evisceration, hair, object or partial limb entrapment and is designed for suction lift applications.

HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	VOLTS	SERVICE FACTOR AMPS	FRAME	STOCK NUMBER	RATING	APPROX "AG"	NOTES
TWO COMPARTMENT C-FACE											
1.00		1.10		1.10	115/230	15.0/7.5	56J	USTG1102A	UP	11.00	
1.00		1.50		1.50	115/230	18.6/9.3	56J	STG1102A	FULL	12.13	1
1.50		1.00		1.50	115/230	18.6/9.3	56J	USTG1152A	UP	12.13	
2.00		1.32		2.64	208-230	12.6/11.4	56J	STG1202A	FULL	13.17	
3.00		1.15		3.45	208-230	15.0-13.3	56J	STG1302A	FULL	14.19	
CENTURION C-FACE											
1.00		1.40		1.40	115/230	14.4/7.2	56J	BG128A	FULL	10.00	
1.50		1.30		1.95	115/230	18.4/9.2	56J	BG129A	FULL	11.00	
2.00		1.20		2.40	230	10.5	56J	BG130A	FULL	10.50	
3.00		1.15		3.45	230	14.1	56J	BG131A	FULL	11.56	
TWO COMPARTMENT SQUARE FLANGE											
0.75		1.27		0.95	115/230	11.8/5.9	48Y	USQG1072A	UP	11.50	
1.00		1.25		1.25	115/230	14.8/7.4	48Y	USQG1102A	UP	12.13	
1.50		1.10		1.65	115/230	19.2/9.6	48Y	USQG1152A	UP	13.13	
2.00		1.30		2.60	230	11.2	48Y	SQG1202A	FULL	13.88	
3.00		1.15		3.45	208-230	15.0-13.3	56J	SQG1302A	FULL	14.00	
CENTURION SQUARE FLANGE											
1.00		1.25		1.25	115/230	14.2/7.1	56Y	BG853A	UP	9.88	
1.50		1.10		1.65	115/230	16.0/8.0	56Y	BG854A	UP	10.25	
2.00		1.10		2.20	230	10.0	56Y	BG855A	UP	10.88	
2.00		1.30		2.60	230	11.5	56Y	BG748A	FULL	12.75	
3.00		1.15		3.45	208-230	15.0-13.6	56Y	BG2844A	FULL	13.63	87



Guardian Motors Also:

Facilitates no main drain pool designs in place of an equalizer line. Guardian® motors shut off the motor/pump when the water level drops below the skimmer.

Reduces pump, motor and seal damage.

Shut off the motor/pump if any of the following conditions occur: Dry, blocked or jammed pump conditions; locked rotor, loss of prime, or abnormal voltage variations.

Detect clogged or blocked filters and shuts down the pump.

Guardian SVRS helps prevent body entrapment on drains due to suction only. It does NOT protect against the four other types of entrapment:

Hair Entanglement: if long hair is pulled into some drains by the flowing water, it can become knotted or snagged, trapping the swimmer underwater and leading to drowning.

Mechanical Entrapment: small items or body parts (e.g., jewelry, swimsuit, hair decorations, fingers, toes, or knuckles) can be caught in some drains or drain covers, trapping the swimmer underwater and leading to drowning.

Limb Entrapment: arms or legs can become trapped in uncovered drains, leading to drowning.

Evisceration/Disembowelment: if a person sits on some drains, the suction can pull the lower intestine out of the rectum, causing irreversible damage.

NOTES

1	Item to be discontinued when stock is depleted
87	Class F Insulation

48 FRAME TWO COMPARTMENT C-FACE POOL MOTORS

FULL RATE SINGLE SPEED

APPLICATIONS:

Inground Swimming Pool Pumps

FEATURES:

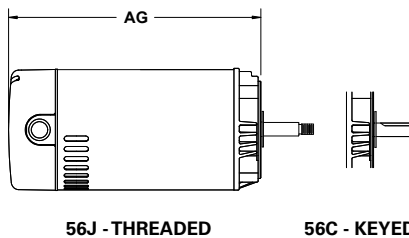
- Automatic Thermal Protection
- Open Dripproof
- Sealed Ball Bearings
- UL 1081 Design
- 56C & 56J Mount
- Rotation: CCW Pump End
- Sealed Switch Design
- 60 Hz
- 50°C Ambient
- Stainless Shaft
- Class B Insulation
- Capacitor Start and Capacitor Run



HIGH SERVICE FACTOR - FULL RATE

HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	RPM	VOLTS	SERVICE FACTOR AMPS	FRAME	STOCK NUMBER	SHAFT	APPROX "AG"	NOTES
0.50		1.60		0.80	3450	115/230	10.6/5.3	56C	SK1052	KEYED	11.00	
0.50		1.60		0.80	3450	115/230	8.0/4.0	56C	CK1052	KEYED	11.00	4, 20
0.50		1.60		0.80	3450	115/230	11.0/5.5	56J	ST1052	THREADED	10.63	
0.50		1.60		0.80	3450	115/230	8.0/4.0	56J	CT1052	THREADED	11.00	4, 20
0.75		1.50		1.13	3450	115/230	14.6/7.3	56C	SK1072	KEYED	11.56	
0.75		1.50		1.13	3450	115/230	11.0/5.5	56C	CK1072	KEYED	11.69	20
0.75		1.50		1.13	3450	115/230	15.0/7.5	56J	ST1072	THREADED	11.00	
0.75		1.50		1.13	3450	115/230	11.0/5.5	56J	CT1072	THREADED	11.58	20
1		1.50		1.50	3450	115/230	17.0/8.5	56C	SK1102	KEYED	12.13	
1		1.40		1.40	3450	115/230	13.6/6.8	56C	CK1102	KEYED	12.13	20
1		1.50		1.50	3450	115/230	18.6/9.3	56J	ST1102	THREADED	12.13	
1		1.40		1.40	3450	115/230	13.6/6.8	56J	CT1102	THREADED	12.13	20
1.50		1.30		1.95	3450	115/230	19.4/9.7	56C	SK1152	KEYED	12.63	20
1.50		1.47		2.21	3450	115/208-230	19.6/10.4-9.8	56J	ST1152	THREADED	12.63	20
2		1.30		2.60	3450	230	11.2	56C	SK1202	KEYED	13.06	20
2		1.32		2.64	3450	208-230	12.6-11.4	56J	ST1202	THREADED	13.06	20
3		1.15		3.45	3450	208-230	15.0-13.3	56C	SK1302V1	KEYED	13.63	20
3		1.15		3.45	3450	208-230	15.0-13.3	56J	ST1302V1	THREADED	14.19	20

NOTES	
4	This motor meets the California Energy Commission Title 20 Section 1605.3(g)5 requirements for energy efficiency
20	Capacitor Start/Capacitor Run



48 FRAME TWO COMPARTMENT C-FACE POOL MOTORS

UP-RATE SINGLE SPEED



UST1102

APPLICATIONS:

Inground Swimming Pool Pumps

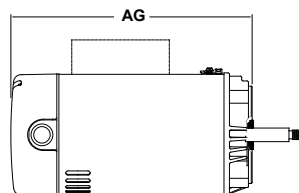
FEATURES:

- Automatic Thermal Protection
- Open Dripproof
- Sealed Ball Bearings
- UL 1081 Design
- Threaded Shaft
- 56J C-Face Mount
- Rotation: CCW Pump End
- Sealed Switch Design
- 60 Hz
- 50°C Ambient
- Stainless Shaft
- Class B Insulation
- Capacitor Start and Capacitor Start/Capacitor Run

LOW SERVICE FACTOR - UP-RATED

HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	RPM	VOLTS	SERVICE FACTOR AMPS	FRAME	STOCK NUMBER	APPROX "AG"	NOTES
0.75		1.00		0.75	3450	115/230	11.0/5.5	56J	UST1072	10.63	
0.75		1.00		0.75	3450	115/230	8.0/4.0	56J	UCT1072	11.00	1, 4, 20
0.75		1.00		0.75	3450	115/230	7.6/3.8	56J	UCT1072V1	11.00	4, 20
1		1.10		1.10	3450	115/230	15.0/7.5	56J	UST1102	11.00	
1		1.00		1.00	3450	115/230	11.0/5.5	56J	UCT1102	11.69	20
1.5		1.00		1.50	3450	115/230	18.6/9.3	56J	UST1152	12.13	
1.5		1.00		1.50	3450	115/230	14.6/7.3	56J	UCT1152	12.13	20
2		1.10		2.20	3450	115/208-230	19.6/10.4-9.8	56J	UST1202	12.63	20
2.5		1.06		2.65	3450	208-230	12.6/11.4	56J	UST1252	13.06	20

NOTES	
1	Item to be discontinued when stock is depleted
4	This motor meets the California Energy Commission Title 20 Section 1605.3(g)5 requirements for energy efficiency
20	Capacitor Start/Capacitor Run



C-FACE

48 FRAME TWO COMPARTMENT SQUARE FLANGE POOL MOTORS

UP-RATE AND FULL RATE SINGLE SPEED



SQ1102

USQ1102

APPLICATIONS:

Inground Swimming Pool Pumps
Used on many popular OEM pumps

FEATURES:

- Automatic Thermal Protection
- Open Dripproof
- Sealed Ball Bearings
- UL 1081 Design
- Threaded Shaft
- Rotation: CCW Pump End
- Sealed Switch Design
- 60 Hz
- 50°C Ambient
- Stainless Shaft
- Class B Insulation
- Capacitor Start

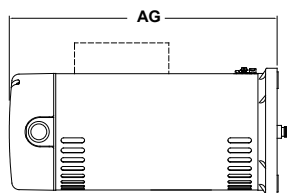
HIGH SERVICE FACTOR - FULL RATE

HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	RPM	VOLTS	SERVICE FACTOR AMPS	FRAME	STOCK NUMBER	APPROX "AG"	NOTES
0.33		1.95		0.65	3450	115/230	9.9/5.0	48Y	SQ1032	11.13	
0.50		1.90		0.95	3450	115/230	13.4/6.7	48Y	SQ1052	11.50	
0.50		1.90		0.95	3450	115/230	9.6/4.8	48Y	QC1052	10.88	4, 20
0.75		1.65		1.24	3450	115/230	15.3/7.6	48Y	SQ1072	12.13	
0.75		1.65		1.24	3450	115/230	12.6/6.3	48Y	QC1072	11.25	20
1.00		1.65		1.65	3450	115/230	19.2/9.6	48Y	SQ1102	13.13	
1.00		1.65		1.65	3450	115/208-230	16.0/8.0	48Y	QC1102	11.88	20
1.50		1.47		2.21	3450	230	10.4	48Y	SQ1152	13.25	20
2.00		1.30		2.60	3450	230	11.2	48Y	SQ1202	13.88	20
3.00		1.15		3.45	3450	208-230	15.0-13.3	56Y	SQ1302V1	14.00	20

LOW SERVICE FACTOR - UP-RATED

HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	RPM	VOLTS	SERVICE FACTOR AMPS	FRAME	STOCK NUMBER	APPROX "AG"	NOTES
0.50		1.30		0.65	3450	115/230	9.9/5.0	48Y	USQ1052	11.13	
0.75		1.27		0.95	3450	115/230	13.4/6.7	48Y	USQ1072	11.50	
0.75		1.27		0.95	3450	115/230	9.6/4.8	48Y	UQC1072	10.88	1, 4, 20
0.95		1.00		0.95	3450	115/230	9.5/4.75	48Y	UQC1072V1	10.85	4, 20
1.00		1.25		1.25	3450	115/230	15.3/7.6	48Y	USQ1102	12.13	
1.00		1.25		1.25	3450	115/230	12.6/6.3	48Y	UQC1102	11.25	20
1.50		1.10		1.65	3450	115/230	19.2/9.6	48Y	USQ1152	13.13	
1.50		1.10		1.65	3450	115/230	16.0/8.0	48Y	UQC1152	13.25	20
2.00		1.10		2.20	3450	230	10.4	48Y	USQ1202	13.25	20
2.50		1.00		2.50	3450	230	11.2	48Y	USQ1252	13.88	20

NOTES	
1	Item to be discontinued when stock is depleted
4	This motor meets the California Energy Commission Title 20 Section 1605.3(g)5 requirements for energy efficiency
20	Capacitor Start/Capacitor Run



SQUARE FLANGE

56 FRAME SINGLE AND TWO COMPARTMENT C-FACE POOL AND SPA MOTORS

UP-RATE AND FULL RATE SINGLE SPEED



APPLICATIONS:

Inground Swimming Pool Pumps
Used on many popular OEM pumps

FEATURES:

- Permanent Split Capacitor
- Switchless
- Single Phase
- Automatic Thermal Protection
- Open Dripproof
- Sealed Ball Bearings
- UL 1081 Design
- Rotation: CCW Pump End
- 60 Hz
- 50°C Ambient
- Class B Insulation
- Aluminum NEMA®* "C" Brackets

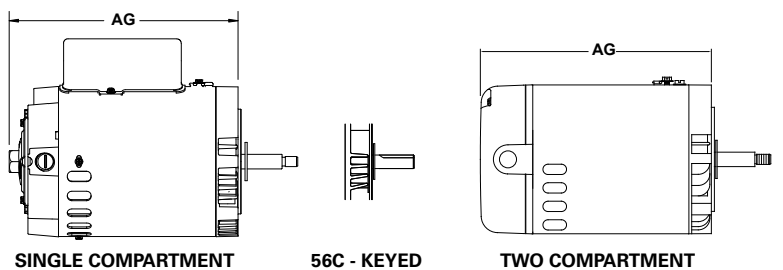
HIGH SERVICE FACTOR - FULL RATE - SINGLE COMPARTMENT

HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	RPM	VOLTS	SERVICE FACTOR AMPS	FRAME	SHAFT	STOCK NUMBER	APPROX "AG"	NOTES
0.50		1.60		0.80	3450	115/230	8.8/4.4	56C	KEYED	B120	9.34	4
0.50		1.60		0.80	3450	115/230	8.8/4.4	56J	THREADED	B126	9.38	4
0.50		1.60		0.80	3450	115/208-230	7.4/4.0-3.7	56J	THREADED	B657	9.39	4
0.75		1.50		1.13	3450	115/230	12.0/6.0	56C	KEYED	B121	9.34	
0.75		1.50		1.13	3450	115/230	12.0/6.0	56J	THREADED	B127	9.45	
0.75		1.50		1.13	3450	115/208-230	10.0/5.4-5.0	56J	THREADED	B638	10.13	
1.00		1.40		1.40	3450	115/230	14.4/7.2	56C	KEYED	B122	9.79	
1.00		1.40		1.40	3450	115/230	14.4/7.2	56J	THREADED	B128	9.58	
1.00		1.40		1.40	3450	115/208-230	11.8/6.4-5.9	56C	KEYED	B653	10.45	
1.00		1.40		1.40	3450	115/208-230	11.8/6.4-5.9	56J	THREADED	B654	10.63	
1.50		1.30		1.95	3450	115/230	18.4/9.2	56C	KEYED	B123	11.09	
1.50		1.30		1.95	3450	115/230	18.4/9.2	56J	THREADED	B129	10.94	
1.50		1.30		1.95	3450	115/208-230	15.6/8.7-7.8	56C	KEYED	B795	11.09	
1.50		1.30		1.95	3450	115/208-230	15.6/8.7-7.8	56J	THREADED	B796	10.99	
2.00		1.20		2.40	3450	115/230	21.6/10.8	56C	KEYED	B835	11.84	
2.00		1.20		2.40	3450	230	10.5	56C	KEYED	B124	10.45	
2.00		1.20		2.40	3450	115/230	21.6/10.8	56J	THREADED	B836	11.34	
2.00		1.20		2.40	3450	230	10.5	56J	THREADED	B130	10.53	
2.00		1.20		2.40	3450	208-230	10.4-9.6	56C	KEYED	B808	11.55	
2.00		1.20		2.40	3450	208-230	10.4-9.6	56J	THREADED	B809	11.59	
3.00		1.15		3.45	3450	230	14.1	56C	KEYED	B125	11.55	
3.00		1.15		3.45	3450	230	14.1	56J	THREADED	B131	11.59	
3.00		1.15		3.45	3450	208-230	15.0-13.6	56C	KEYED	B817	11.55	
3.00		1.15		3.45	3450	208-230	15.0-13.6	56J	THREADED	B818	11.59	
4.00		1.25		5.00	3450	208-230	21.0-19.4	56Y	SPECIAL	B116	16.78	7, 31, 34, 63, 236

LOW SERVICE FACTOR - UP RATE - TWO COMPARTMENT

HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	RPM	VOLTS	AMPS	FRAME	SHAFT	STOCK NUMBER	APPROX "AG"	NOTES
0.75		1.00		0.75	3450	115/230	8.8/4.4	56J	THREADED	B227SE	10.00	4, 12
1.00		1.00		1.00	3450	115/230	12.0/6.0	56J	THREADED	B228SE	10.25	12
1.50		1.00		1.50	3450	115/230	14.4/7.2	56J	THREADED	B229SE	11.35	12
2.00		1.00		2.00	3450	115/230	18.4/9.2	56J	THREADED	B230SE	11.75	12
2.50		1.00		2.50	3450	230	10.5	56J	THREADED	B231SE	11.25	12

NOTES	
4	This motor meets the California Energy Commission Title 20 Section 1605.3(g)5 requirements for energy efficiency
7	Manual Protector
12	303 Stainless steel shaft
31	40°C Ambient
34	Rigid Base
63	Speck Pumps®* replacement motor
236	Rotation: CW Pump End



*Attribution statement appears on last page.

PREMIUM MOTORS
 LEGACY MOTORS
 OEM DIRECT REPLACEMENT MOTORS
 GENERAL INFORMATION
 PARTS AND ACCESSORIES
 INDEX

56 FRAME TWO COMPARTMENT SQUARE FLANGE POOL AND SPA MOTORS

SINGLE SPEED



B2854

APPLICATIONS:

Inground Swimming Pool Pumps

FEATURES:

- Permanent Split Capacitor
- Switchless
- Single Phase
- Open Dripproof
- Automatic Thermal Protection
- Sealed Ball Bearings
- UL 1081 Design
- Rotation: CCW Pump End
- 60 Hz
- 50°C Ambient
- Class F Insulation
- New Centurion® Design
- No Base
- Stainless Shaft
- 56Y Frame
- Threaded Shaft

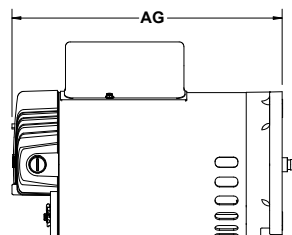
HIGH SERVICE FACTOR - FULL RATE

HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	RPM	VOLTS	SERVICE FACTOR AMPS	FRAME	SHAFT	STOCK NUMBER	APPROX "AG"	NOTES
0.50		1.95		0.98	3450	115/230	10.8/5.4	56Y	THREADED	B2846	11.9	4
0.50		1.90		0.95	3450	115/208-230	8.8/4.5-4.4	56Y	THREADED	B845	11.9	4, 8, 223
0.75		1.65		1.24	3450	115/230	13.0/6.5	56Y	THREADED	B2847V1	11.71	
0.75		1.67		1.25	3450	115/208-230	11.2/6.0-5.6	56Y	THREADED	B2661	12.6	
1.00		1.65		1.65	3450	115/230	16.0/8.0	56Y	THREADED	B2848	12.3	
1.00		1.65		1.65	3450	115/208-230	14.8/7.8-7.4	56Y	THREADED	B2841V1	12.9	
1.50		1.50		2.25	3450	115/230	21.0/10.5	56Y	THREADED	B2858	13.9	
1.50		1.50		2.25	3450	230	10.0	56Y	THREADED	B849	12.9	8, 223
1.50		1.47		2.21	3450	208-230	9.6-8.8	56Y	THREADED	B2842	13.4	
2.00		1.30		2.60	3450	230	11.5	56Y	THREADED	B2748	12.9	
2.00		1.30		2.60	3450	208-230	11.0-10.2	56Y	THREADED	B2843	13.9	
3.00		1.15		3.45	3450	208-230	15.0-13.6	56Y	THREADED	B2844	13.9	

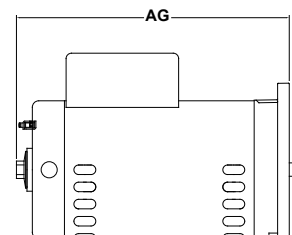
LOW SERVICE FACTOR - UP-RATED

HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	RPM	VOLTS	SERVICE FACTOR AMPS	FRAME	SHAFT	STOCK NUMBER	APPROX "AG"	NOTES
0.75		1.25		0.94	3450	115/230	10.8/5.4	56Y	THREADED	B2852	11.9	4
1.00		1.25		1.25	3450	115/230	13.2/6.6	56Y	THREADED	B2853	11.9	
1.50		1.10		1.65	3450	115/230	16.0/8.0	56Y	THREADED	B2854	12.3	
2.00		1.10		2.20	3450	115/230	21.0/10.5	56Y	THREADED	B2859	13.9	
2.00		1.10		2.20	3450	230	10.0	56Y	THREADED	B855	12.9	8, 223
2.50		1.04		2.60	3450	230	11.5	56Y	THREADED	B2840	12.9	

NOTES	
4	This motor meets the California Energy Commission Title 20 Section 1605.3(g)5 requirements for energy efficiency
8	Single compartment design
223	Class B Insulation



TWO COMPARTMENT



SINGLE COMPARTMENT

48 FRAME TWO COMPARTMENT C-FACE AND SQUARE FLANGE POOL MOTORS

FULL RATE TWO-SPEED



APPLICATIONS:

Inground Swimming Pool Pumps
Used on many popular OEM pumps

FEATURES:

- Two-Speed
- All Copper Windings
- Capacitor Start on Low Speed
- Permanent Split Capacitor High Speed
- Class B Insulation
- Single Phase
- Automatic Thermal Protection
- Open Dripproof
- Sealed Ball Bearings
- UL 1081 Design
- Stainless Shaft
- Threaded Shaft
- Rotation: CCW Pump End
- 60 Hz
- 50°C Ambient

SEALED SWITCH DESIGN - C-FACE

HP HIGH/LOW	SERVICE FACTOR	TOTAL HORSEPOWER	RPM	VOLTS	SERVICE FACTOR AMPS HIGH/LOW	FRAME	FLANGE	STOCK NUMBER	APPROX "AG"	NOTES
1.0 / 0.13	1.50	1.50	3450/1725	230	7.0/2.3	56J	C-FACE	STS1102RV1	12.50	4
1.5 / 0.25	1.30	1.95	3450/1725	230	9.0/3.3	56J	C-FACE	STS1152R	13.06	4, 20, 31

Two-speed toggle switches are not included with the motor and can be installed separately.

LOW SPEED CAPACITOR START - HIGH SPEED PERMANENT SPLIT CAPACITOR

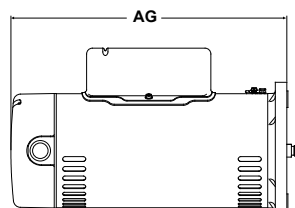
HP HIGH/LOW	SERVICE FACTOR	TOTAL HORSEPOWER	RPM	VOLTS	SERVICE FACTOR AMPS HIGH/LOW	FRAME	FLANGE	STOCK NUMBER	APPROX "AG"	NOTES
.75 / .13	1.65	1.24	3450/1725	115	13.0/4.2	48Y	SQUARE	SQL1072R	12.13	4
1.0 / .17	1.65	1.24	3450/1725	230	7.7/2.8	48Y	SQUARE	SQS1102R	13.31	4
1.5 / .19	1.47	2.21	3450/1725	230	10.0/3.0	48Y	SQUARE	SQS1152R	13.06	4
2.0 / .33	1.30	2.60	3450/1725	230	11.3/3.3	48Y	SQUARE	SQS1202R	13.31	4

Two-speed toggle switches are not included with the motor and can be installed separately.

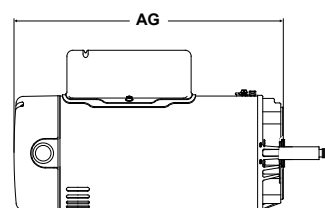
PARTS & ACCESSORIES

STOCK NUMBER	NAME	DESCRIPTION
615332-002	End Cover and Switch Assembly Kit	End cover and high/low switch assembly kit for SQL1072R, SQS1102R, SQS1152R, SQS1202R.
1011431-001	Switch Assembly	End cover and high/low switch assembly kit for STS1102RV1 and STS1152R.

NOTES	
4	This motor meets the California Energy Commission Title 20 Section 1605.3(g)5 requirements for energy efficiency
20	Capacitor Start/Capacitor Run
31	40°C ambient



SQUARE FLANGE



C-FACE

56 FRAME FULL RATE SINGLE AND TWO COMPARTMENT C-FACE AND SQUARE FLANGE POOL AND SPA MOTORS

TWO-SPEED



APPLICATIONS:

Inground Swimming Pool Pumps

FEATURES:

- Two-Speed
- Automatic Thermal Protection
- Single Phase
- Sealed Ball Bearings
- Rotation: CCW Pump End
- 60 Hz
- Stainless Shaft
- UL 1081 Design
- Class B Insulation
- Capacitor Start/Capacitor Run Low Speed
- Permanent Split Capacitor High Speed

TWO SPEED - HIGH SPEED SWITCHLESS PSC - C-FACE

HP HIGH/LOW	X SERVICE FACTOR	= TOTAL HP	RPM	VOLTS	SERVICE FACTOR AMPS HIGH/LOW	FRAME	SHAFT	AMBIENT TEMP	STOCK NUMBER	APPROX "AG"	NOTES
0.50 / 0.06	1.6	0.80	3450/1725	115	8.8/3.55	56C	KEYED	40°C	B970	9.70	4, 5, 8
0.50 / 0.06	1.6	0.80	3450/1725	115	8.8/3.55	56J	THREADED	40°C	B971	9.74	4, 5, 8
0.75 / 0.10	1.5	1.13	3450/1725	115	11.2/5.0	56C	KEYED	40°C	B972	9.70	4, 5, 8
0.75 / 0.10	1.5	1.13	3450/1725	115	12.4/2.4	56J	THREADED	50°C	B2973	9.74	4, 87, 336
1.00 / 0.12	1.4	1.40	3450/1725	230	6.3/2.3	56C	KEYED	40°C	B974	9.95	4, 5, 8
1.00 / 0.12	1.4	1.25	3450/1725	230	6.6/1.5	56J	THREADED	50°C	B2975	10.49	4, 87, 336
1.50 / 0.20	1.3	1.95	3450/1725	230	8.9/3.1	56C	KEYED	40°C	B976	10.44	4, 5, 8
1.50 / 0.20	1.3	1.95	3450/1725	230	8.7/1.9	56J	THREADED	50°C	B2977	10.49	4, 87, 336
1.50 / 0.20	1.1	1.65	3450/1725	115	14.6/4.4	56J	THREADED	50°C	B969	10.98	4, 5, 8, 63
2.00 / 0.25	1.2	2.40	3450/1725	230	10.6/3.2	56C	KEYED	40°C	B978	10.94	4, 5, 8
2.00 / 0.25	1.2	2.40	3450/1725	230	10.0/2.1	56J	THREADED	50°C	B2979	10.99	4, 87, 336
3.00 / 0.38	1.2	3.45	3450/1725	230	13.8/4.0	56J	THREADED	40°C	B966	11.73	4, 5, 8

Two-speed toggle switches are not included with the motor and can be installed separately.

TWO SPEED - HIGH SPEED SWITCHLESS PSC - SQUARE FLANGE

HP HIGH/LOW	X SERVICE FACTOR	= TOTAL HP	RPM	VOLTS	SERVICE FACTOR AMPS HIGH/LOW	FRAME	SHAFT	AMBIENT TEMP	STOCK NUMBER	APPROX "AG"	NOTES
.75 / .10	1.7	1.25	3450/1725	230	5.8/0.9	56Y	THREADED	50°C	B2980	12.6	4, 87
.75 / .10	1.7	1.25	3450/1725	115	12.2/2.0	56Y	THREADED	50°C	B2981	12.6	4, 87
1.0 / .12	1.7	1.65	3450/1725	230	7.4/1.4	56Y	THREADED	50°C	B2982	12.9	4, 87
1.5 / .19	1.5	2.21	3450/1725	230	10.0/1.6	56Y	THREADED	50°C	B2983	13.4	4, 87
2.0 / .25	1.3	2.60	3450/1725	230	11.0/1.8	56Y	THREADED	50°C	B2984	13.9	4, 87
2.0 / .33	1.1	2.20	3450/1725	230	10.0/3.5	56Y	THREADED	40°C	B985	13.9	3, 4, 5, 8
3.0 / .38	1.2	3.45	3450/1725	230	15.0/2.6	56Y	THREADED	50°C	B2987	13.8	4, 87

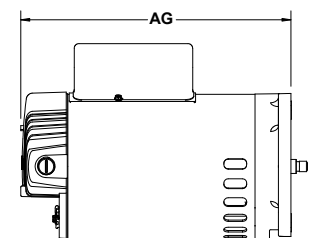
Two-speed toggle switches are not included with the motor and can be installed separately.

PARTS & ACCESSORIES

STOCK NUMBER	NAME	DESCRIPTION
17590450	Toggle Switch Kit	High-Low Toggle Switch for B970, B971, B972, B974, B976, B969, B978, B966, B985.
2512558-001	Toggle Switch Kit	High-Low Toggle Switch for B2973, B2975, B2977, B2979, B2980, B2981, B2982, B2983, B2984, B2987.

NOTES	
3	Up-rated - low service factor, Class B Insulation
4	This motor meets the California Energy Commission Title 20 Section 1605.3(g)5 requirements for energy efficiency
5	Microswitch, Split phase low speed, permanent split capacitor high speed

8	Single compartment design
63	Speck Pumps®** replacement motor
87	Class F Insulation
336	Capacitor start/capacitor run low speed, permanent split capacitor high speed



*Attribution statement appears on last page.

48 FRAME THRU BOLT MOUNT POOL & SPA MOTORS

SINGLE AND TWO-SPEED



BN35V1

APPLICATIONS:

Above Ground Swimming Pool, Spa and Jetted Tub Pumps

FEATURES:

- Thru Bolt Mount
- Four Thru Bolts on a 5.146" Bolt Circle
- 12 & 3 o'clock Conduit Entries
- Base Mount
- Single and Two-Speed
- Automatic Thermal Protection
- 3-1/2" Shaft Height
- Single Phase
- Open Dripproof
- Sealed Ball Bearings
- Threaded Shaft
- Rotation: CCW Pump End
- 60 Hz
- 40°C Ambient
- Class B Insulation

FLEX 48 - SINGLE SPEED - UL 1081, 1795 & 1563 DESIGN - RIGID BASE

HP HIGH/LOW	SERVICE FACTOR	= TOTAL HORSEPOWER	RPM	VOLTS	AMPS HIGH/LOW	FRAME	STOCK NUMBER	APPROX "AG"	NOTES
0.50	1.00	0.50	3450	115	7.0	48Y	BN23V1	8.44	62
0.75	1.00	0.75	3450	115	9.4	48Y	BN24V1	8.84	62, 90
1.00	1.00	1.00	3450	115	11.8	48Y	BN25V1	9.09	62, 90
1.50	1.00	1.50	3450	115/230	16.0/8.0	48Y	BN35V1	9.71	45
2.00	1.00	2.00	3450	115/230	20.0/10.0	48Y	BN40SS	10.96	45

FLEX 48 - TWO-SPEED - UL 1081 & 1563 DESIGN - RIGID BASE - LOW AMP START AND RUN

HP HIGH/LOW	SERVICE FACTOR	= TOTAL HORSEPOWER	RPM	VOLTS	AMPS HIGH/LOW	FRAME	STOCK NUMBER	APPROX "AG"	NOTES
0.75/0.10	1.00	0.75	3450/1725	115	8.8/2.6	48Y	BN36	9.71	10, 14, 62
1.00/0.13	1.00	1.00	3450/1725	115	10.8/2.8	48Y	BN37V1	10.34	11, 145
1.50/0.25	1.00	1.50	3450/1725	115	13.5/4.7	48Y	BN50V1	10.84	11, 145
1.50/0.19	1.00	1.50	3450/1725	230	6.5/2.5	48Y	BN34V1	10.84	11, 145
2.00/0.25	1.00	2.00	3450/1725	230	10.5/2.6	48Y	BN51	10.96	10, 14, 45, 87

Two-speed toggle switches are not included with the motor and can be installed separately.

FLEX 48 - TWO-SPEED - UL 1081 & 1563 DESIGN - RIGID BASE - LOW AMP START AND RUN

HP HIGH/LOW	SERVICE FACTOR	= TOTAL HORSEPOWER	RPM	VOLTS	AMPS HIGH/LOW	FRAME	STOCK NUMBER	APPROX "AG"	NOTES
2.00/0.25	1.00	2.00	3450/1725	230	8.5/2.8	48Y	BN61	10.96	4, 10, 45, 69, 145
2.00/0.38	1.00	3.00	3450/1725	230	12.0/3.5	48Y	BN62	11.96	4, 10, 45, 69, 87, 90, 145
4.00/0.42	1.00	4.00	3450/1725	208-230	12.0/3.5	48Y	BN63	11.96	4, 10, 45, 69, 90, 145

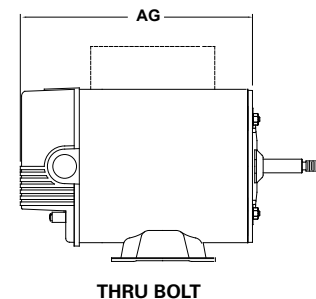
Two-speed toggle switches are not included with the motor and can be installed separately.

PARTS & ACCESSORIES

STOCK NUMBER	NAME	DESCRIPTION
18374501	Toggle Switch	Single-speed toggle switch assembly - on/off.
18313301	Toggle Switch	Two-speed toggle switch assembly - Lo/Off/Hi.

NOTES	
4	This motor meets the California Energy Commission Title 20 Section 1605.3(g)5 requirements for energy efficiency
10	Induction run low speed
11	Low speed capacitor start, induction run - High speed permanent split capacitor
14	Induction run high speed

45	Capacitor start
62	Split phase start
69	Permanent split capacitor motor high speed
87	Class F Insulation
90	50°C ambient
145	Run capacitor mounted on motor shells



56 FRAME THRU BOLT SPA MOTORS

SINGLE AND TWO-SPEED



B2235

APPLICATIONS:

Spas

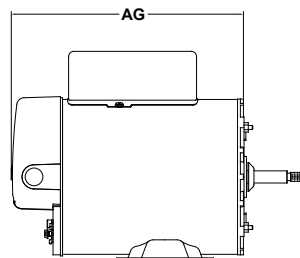
FEATURES:

- Single Phase
- Rigid Base
- Thru Bolt Mount
- Four Thru Bolts on a 5.812 Bolt Circle
- 6 1/2" Diameter
- Single and Two-Speed
- Automatic Thermal Protection
- 3-1/2" Shaft Height
- Open Dripproof
- Sealed Ball Bearings
- Threaded Shaft
- Rotation: CCW Pump End
- 60 Hz
- 50°C Ambient
- Capacitor Start/Capacitor Run on Low Speed
- Permanent Split Capacitor on High Speed

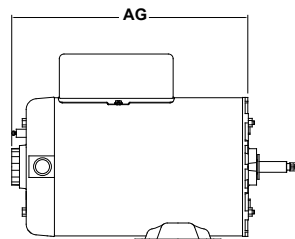
HP-SPL†	RPM	VOLTS	AMPS (A)††	FRAME	INSULATION	STOCK NUMBER	APPROX "AG"	REPLACES WATERWAY®* #	REPLACES CENTURIUM® #	NOTES
1.00/0.13 SPL	3450/1725	230	6.0/1.2 (A)	56Y	F	B2232	9.62	3720621	187692	108
2.00/0.25 SPL	3450/1725	230	7.4/1.4 (A)	56Y	F	B2233	9.87	3721021	187693	108
3.00/0.38 SPL	3450/1725	230	10.0/1.8 (A)	56Y	F	B2234	10.37	3721421	187694	108
4.00/0.50 SPL	3450/1725	230	12.0/3.0	56Y	F	B2235	11.12	3721621	187563	108
5.00/0.63 SPL	3450/1725	230	16.4/4.8	56Y	F	B236	11.00	3722021	187098	108
4.00 SPL	3450	230	12	56Y	B	B237	10.25	3711821	187624	
5.00 SPL	3450	230	16.4	56Y	B	B238V1	11.00	3712021	187970	

HP-SPL REFERENCE CHART

HP	B2232	B2233	B2234	B2235	B236	B237	B238
HP-SPL	1.00/0.13 SPL	2.00/0.25 SPL	3.00/0.38 SPL	4.00/0.50 SPL	5.00/0.63 SPL	4.00 SPL	5.0 SPL
HP (at 1.0 SF)	1.00/0.12	1.5/1.9	2.00/0.25	3.0/3.8	4.0/5.0	3.0	4.0
HP Amps (at 1.0 SF)	4.8/8	6.4/1.2	8.8/1.6	12.0/3.0	16.4/4.8	12.0	16.4



TWO COMPARTMENT



SINGLE COMPARTMENT

NOTES	
†	HP-SPL means Horsepower - Special. The reference chart below lists the horsepower and horsepower Amps at 1.0 service factor in relation to the HP-SPL ratings
††	(A) Max Load Amp Rating - As a guideline, at 230V+- 10% voltage, do not load motor above this Amp rating. Amp draw differences between the premium efficiency New Centurion® design (e.g. B2233) is attributable in part to the addition of a run capacitor on low speed. Use of Amp data to determine the correct replacement is not recommended. Instead, refer to the chart for the correct stock number to replace either an original Waterway pump motor or the now discontinued Centurion stock motor
108	Two-speed motor

*Attribution statement appears on last page.

SQUARE FLANGE AND C-FACE POOL PUMP MOTORS

SINGLE SPEED 3-PHASE



T3202

APPLICATIONS:

Inground Swimming Pool Pumps

FEATURES:

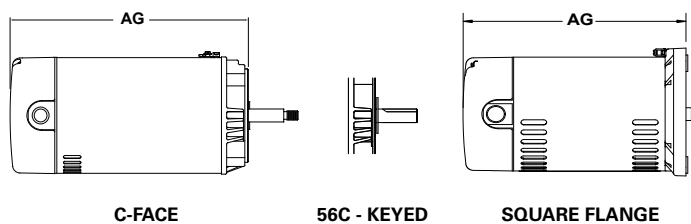
- Single Speed
- Three Phase
- 56C & 56J Mount
- Open Dripproof
- 60 Hz
- Sealed Ball Bearings
- Stainless Steel Shaft
- Class B Insulation
- Internal Junction Box
- Aluminum NEMA® "C" Brackets
- 1/2" x 14 thread tapped opening for conduit fitting
- Optional Vertical Mounting

C-FACE - 40°C AMBIENT

HP HIGH/LOW X SERVICE FACTOR = TOTAL HORSEPOWER	RPM	VOLTS	SERVICE FACTOR AMPS	FRAME	AMBIENT TEMP	STOCK NUMBER	SHAFT	APPROX "AG"	NOTES
0.50 1.60 = 0.80	3450	208-230/460	2.7/1.35	56J	40°C	T3052	THREADED	8.63	
0.75 1.50 = 1.13	3450	208-230/460	3.4/1.7	56C	40°C	K3072	KEYED	9.13	
0.75 1.50 = 1.13	3450	208-230/460	3.4/1.7	56J	40°C	T3072	THREADED	9.13	
1.00 1.40 = 1.40	3450	208-230/460	4.0/2.0	56C	40°C	K3102	KEYED	9.69	
1.00 1.40 = 1.40	3450	208-230/460	4.0/2.0	56J	40°C	T3102	THREADED	9.69	
1.50 1.30 = 1.95	3450	208-230/460	6.8/3.4	56C	40°C	K3152	KEYED	11.31	
1.50 1.30 = 1.95	3450	208-230/460	6.8/3.4	56J	40°C	T3152	THREADED	11.31	
2.00 1.20 = 2.40	3450	208-230/460	8.6/4.3	56C	40°C	K3202	KEYED	11.31	
2.00 1.20 = 2.40	3450	208-230/460	8.6/4.3	56J	40°C	T3202	THREADED	11.31	

SQUARE FLANGE - ALL COPPER WINDINGS - 50°C AMBIENT

HP HIGH/LOW X SERVICE FACTOR = TOTAL HORSEPOWER	RPM	VOLTS	SERVICE FACTOR AMPS	FRAME	AMBIENT TEMP	STOCK NUMBER	SHAFT	APPROX "AG"	NOTES
0.50 1.90 = 0.95	3450	208-230/460	3.0/1.5	48Y	50°C	Q3052	THREADED	9.88	15
0.75 1.65 = 1.24	3450	208-230/460	3.6/1.8	48Y	50°C	Q3072	THREADED	10.38	15
1.00 1.65 = 1.65	3450	208-230/460	4.7/2.35	48Y	50°C	Q3102	THREADED	10.88	15
1.50 1.47 = 2.21	3450	208-230/460	6.8/3.4	48Y	50°C	Q3152	THREADED	11.88	15
2.00 1.30 = 2.60	3450	208-230/460	8.5/4.25	48Y	50°C	Q3202	THREADED	12.63	15
3.00 1.15 = 3.45	3450	200-230/460	10.0/5.0	56Y	50°C	Q3302V1	THREADED	12.00	15



NOTES

15 1/4 - 20 LH internal thread

*Attribution statement appears on last page.

56 FRAME 3-PHASE POOL PUMP MOTORS

SINGLE SPEED 3-PHASE



APPLICATIONS:

Inground Swimming Pool Pumps

FEATURES:

- Open Dripproof
- Three Phase
- Sealed Ball Bearings
- Single Speed
- Reversible (Three Phase)
- Stainless Shaft
- Cast Iron NEMA®* "C" Bracket
- Class A or B Insulation
- No overload protector

C-FACE - FULL RATE - HIGH SERVICE FACTOR - 50/60 HZ - 40°C AMBIENT

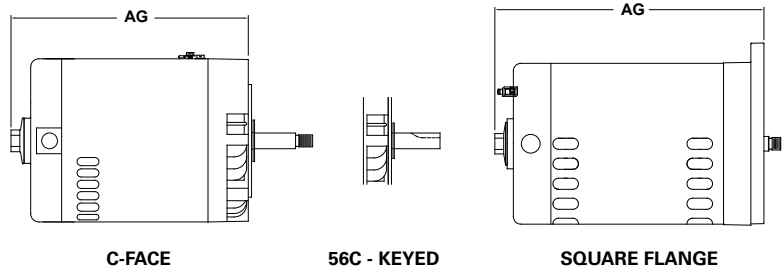
HP HIGH/LOW X	SERVICE FACTOR =	TOTAL HORSEPOWER	RPM 50/60 HZ	VOLTS	SERVICE FACTOR AMPS AT 60HZ	FRAME	STOCK NUMBER	SHAFT	APPROX "AG"	NOTES
0.5	1.60	0.80	3450/2850	208-230/460	1.8-2.0/1.0	56C	H281	KEYED	9.77	1
0.5	1.60	0.80	3450/2850	208-230/460	1.8-2.0/1.0	56J	H282	THREADED	9.49	1
0.75	1.50	1.13	3450/2850	208-230/460	2.9-2.8/1.4	56J	H451	THREADED	9.56	1
1.00	1.40	1.40	3450/2850	208-230/460	3.0-3.2/1.6	56C	H513	KEYED	10.52	1
1.00	1.40	1.40	3450/2850	208-230/460	3.0-3.2/1.6	56J	H514	THREADED	9.56	1
1.50	1.30	1.95	3450/2850	208-230/460	4.6-4.4/2.2	56C	H616	KEYED	11.14	1
1.50	1.30	1.95	3450/2850	208-230/460	4.6-4.4/2.2	56J	H617	THREADED	10.06	1
2.00	1.20	2.40	3450/2850	208-230/460	5.8-5.5/2.75	56C	H704	KEYED	11.52	1
2.00	1.20	2.40	3450/2850	208-230/460	5.8-5.5/2.75	56J	H705V1	THREADED	10.56	1
3.00	1.15	3.45	3450/2850	208-230/460	9.0-8.6/4.3	56C	H740	KEYED	11.20	233, 257
3.00	1.15	3.45	3450/2850	208-230/460	9.0-8.6/4.3	56J	H741	THREADED	10.56	233, 257

SQUARE FLANGE - 60 HZ - 50°C AMBIENT - NO BASE

HP HIGH/LOW X	SERVICE FACTOR =	TOTAL HORSEPOWER	RPM	VOLTS	SERVICE FACTOR AMPS	FRAME	STOCK NUMBER	SHAFT	APPROX "AG"	NOTES
0.50	1.90	0.95	3450	208-230/460	3.2-3.0/1.5	56Y	H491	THREADED	11.70	233
0.75	1.65	1.24	3450	208-230/460	3.8-3.6/1.8	56Y	H492	THREADED	12.30	233
1.00	1.65	1.65	3450	208-230/460	5.0-4.6/2.3	56Y	H635	THREADED	12.70	233
1.50	1.47	2.21	3450	208-230/460	6.4-5.8/2.9	56Y	H636	THREADED	12.90	233
2.00	1.30	2.60	3450	208-230/460	7.1-6.8/3.4	56Y	H637	THREADED	13.40	233
3.00	1.15	3.45	3450	208-230/460	9.8-9.6/4.8	56Y	H755	THREADED	13.40	233

NOTES	
1	Item to be discontinued when stock is depleted
233	Class B Insulation
257	60 Hz only

*Attribution statement appears on last page.



PREMIUM MOTORS

LEGACY MOTORS

OEM DIRECT REPLACEMENT MOTORS

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STA-RITE®* DIRECT REPLACEMENT SPA MOTORS

TWO-SPEED



SDS1302

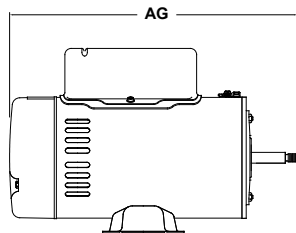
APPLICATIONS:

Used on many popular spas

FEATURES:

- Two-Speed
- Thermal Protection
- Open Dripproof
- Sealed Ball Bearings
- Rotation: CCW Pump End
- 50°C Ambient
- Stainless Shaft
- Threaded Shaft
- Class F Insulation
- Through bolt Mount
- Four Thru bolts on a 5.146 Bolt Circle
- Capacitor Start Low Speed and Permanent Split Capacitor High Speed
- 56Z Mount

HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	RPM	VOLTS	AMPS	FRAME	STOCK NUMBER	REPLACES STA-RITE®*	APPROX "AG"	DIM "BX"	NOTES
1.00	0.12	1.00		1.00	3450/1725	115	10.4/3.6	56Z	SDS1102	K48L2A1	10.30	8.85	4, 223
1.50	0.19	1.00		1.50	3450/1725	230	7.2/2.4	56Z	SDS1152	K48M2A4	10.79	9.34	4
2.00	0.25	1.00		2.00	3450/1725	230	8.5/3.0	56Z	SDS1202	K48N2A5	11.42	9.98	4
2.50	0.25	1.00		2.50	3450/1725	230	10.7/3.0	56Z	SDS1252	K48N2A4C2	10.67	9.23	4
3.00	0.38	1.00		3.00	3450/1725	230	12.0/3.7	56Z	SDS1302	K48P2A1	10.92	9.48	4



THRU BOLT

NOTES

4	This motor meets the California Energy Commission Title 20 Section 1605.3(g)5 requirements for energy efficiency
233	Class B Insulation

*Attribution statement appears on last page.

PENTAIR®* EQ SERIES PUMP DIRECT REPLACEMENT MOTORS

COMMERCIAL POOL PUMP MOTORS



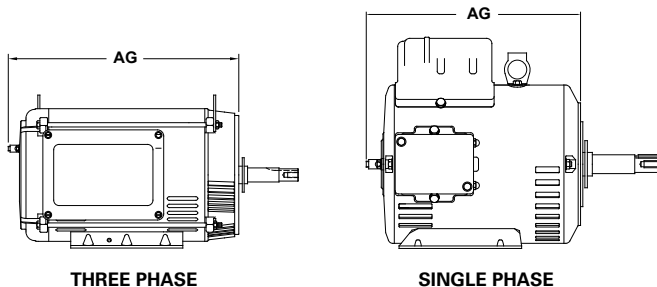
APPLICATIONS:

Commercial and Large Residential Pools

FEATURES:

- Single and three phase
- 3600 RPM (2 Pole)
- Rigid Base
- Open Dripproof
- Double Shielded Ball Bearing
- Rotation: CCW Pump End
- 40°C Ambient
- 303 Stainless Shaft Extension
- Special JMZ Shaft Configuration
- Premium Efficient Designs
- Class F Insulation
- Reversible

HP	SF	VOLTS	AMPS	FRAME	FULL LOAD EFF	FULL LOAD PF	PHASE	PROT	STOCK NUMBER	PENTAIR* MOTOR NO.	PENTAIR PUMP MODEL	NIDEC®/U.S. MOTORS® NO.	APPROX "AG"
5.00	1.15	230	22.2	184JMZ	80.0%	93.0%	1	MANUAL	CEQ500	357065	EQ500	EEQ500	12.86
5.00	1.15	230/460	11.8/5.9	182JMZ	91.0%	88.0%	3	NONE	CEQK500	357068	EQK500	EEQK500	13.36
7.50	1.15	230	29.5	213JMZ	88.5%	93.5%	1	NONE	CEQ750	357066	EQ750	EEQ750	15.67
7.50	1.15	230/460	17.8/8.9	184JMZ	88.5%	89.0%	3	NONE	CEQK750	357069	EQK750	EEQK750	13.36
10.00	1.15	230/460	24.2/12.1	213JMZ	90.2%	85.4%	3	NONE	CEQK1000	357070	EQK1000	EEQK1000	15.53
15.00	1.15	230/460	36.5/18.2	215JMZ	91.0%	85.0%	3	NONE	CEQK1500	357071	EQK1500	EEQK1500	15.53



*Attribution statement appears on last page.

HOFFINGER®* (DOUGHBOY) DIRECT REPLACEMENT POOL MOTORS

OEM DIRECT REPLACEMENT



BV90

APPLICATIONS:

Above ground swimming pool pumps

FEATURES:

- Split Phase
- Automatic Thermal Protection
- Open Dripproof
- Single Phase
- Sealed Ball Bearings
- No Base
- Rotation: CCWPE
- 40°C Ambient
- Stainless Shaft
- Threaded Shaft
- Class B Insulation

HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	RPM	VOLTS	AMPS	FRAME	STOCK NUMBER	APPROX "AG"	NOTES
1.00		1.00		1.00	3450	115	10.0	48Y	BV90	7.890	
1.00		1.00		1.50	3450	115	9.0	48Y	BV91	7.655	285

PREMIUM MOTORS

LEGACY MOTORS

OEM DIRECT REPLACEMENT MOTORS

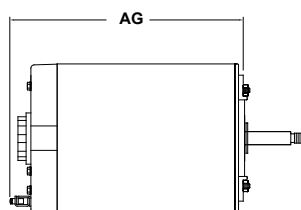
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NOTES	
285	3/8-16, LH, CWPE rotation

*Attribution statement appears on last page.



THRU BOLT

BOOSTER PUMP/POOL CLEANER DIRECT REPLACEMENT MOTORS

OEM DIRECT REPLACEMENTS

APPLICATIONS:

Pool Cleaner Pump Motors

Replacement motor for Arneson®* "Pool Sweep®**"
Polaris®* "Vac-Sweep®**" and Letro®* "Jet Vac®**"

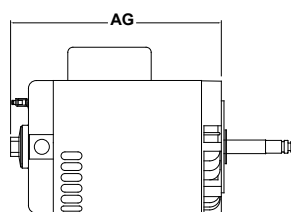
FEATURES:

- Automatic Thermal Protection
- Open Dripproof
- Single Phase
- Sealed Ball Bearings
- Rigid Base and No Base
- Rotation: CCW Pump End
- Stainless Shaft
- 40°C Ambient
- Threaded Shaft
- Class B Insulation
- UL 1081 Design
- Aluminum Adapter Bracket
- Permanent Split Capacitor

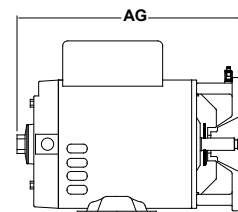


HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	RPM	VOLTS	AMPS	FRAME	BASE	MOUNT	STOCK NUMBER	APPROX "AG"	BRAND	NOTES
0.75		1.50		1.13	3450	115/230	12.8/6.4	56CZ	None	Horizontal	B625	10.31	Polaris*	9, 222
0.75		1.50		1.13	3450	115/230	12.0/6.0	56Y	Rigid	Horizontal	B662	11.31	Arneson*	
0.75		1.50		1.13	3450	115/230	12.0/6.0	56Y	None	Vertical	B663	10.46	Arneson*	
0.75		1.50		1.13	3450	115/230	12.0/6.0	56Y	Rigid	Horizontal	B667	12.47	Letro*	247
0.75		1.50		1.13	3450	115/230	13.0/6.5	56CZ	None	Horizontal	B668	9.44	Letro*	222, 246

NOTES	
9	Capacitor start, induction run
222	Does not have aluminum adapter bracket
246	Fits pump #LA01N manufactured March 1997 to present
247	Fits pump #LA01 manufactured March 1997 and prior



56CZ



56Y

*Attribution statement appears on last page.

PUREX®* DIRECT REPLACEMENT

POOL PUMP MOTORS

C-SERIES®* COMMERCIAL PUMP



R237M2A

APPLICATIONS:

Commercial Pools

FEATURES:

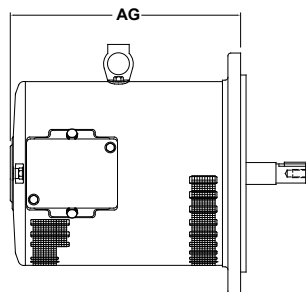
- Open Dripproof
- No Base
- Sealed Ball Bearings
- Rotation: CCW Pump End
- Reversible
- 40°C Ambient
- Stainless Shaft
- Keyed Shaft
- Class F Insulation
- External Slinger
- D Flange
- Non-NEMA®* Standard Shaft
- Single and Three Phase

SINGLE PHASE - CAPACITOR START

HP	SERVICE FACTOR	RPM	VOLTS	SERVICE FACTOR AMPS	HERTZ	FRAME	STOCK NUMBER	OVERLOAD	EFFICIENCY	APPROX "AG"
5	1.15	3530	230	22.7	60	184TDZ / 184TY	V214M2	None	78.5%	14.32

THREE PHASE

HP	SERVICE FACTOR	RPM	VOLTS	SERVICE FACTOR AMPS	HERTZ	FRAME	STOCK NUMBER	OVERLOAD	EFFICIENCY	APPROX "AG"
5	1.15	3500	220/440	13.0/6.5	60/50	182TDZ / 182TY	R237M2A	None	86.5%	11.32
7.5	1.15	3490	220/440	18.6/9.3	60/50	184TDZ / 184TY	R232M2A	None	88.5%	12.82
7.5	1.15	3470	200	23.7	60	184TDZ / 184TY	R257M2	None	87.5%	12.32
10	1.15	3530/2940	220/440	26.8/13.4	60/50	213TDZ / 213TY	R338M2A	None	90.2%	13.54
15	1.15	3525	220/440	43.5/21.9	60/50	215TDZ / 215TY	R339M2A	None	91.0%	15.04



*Attribution statement appears on last page.

PENTAIR®* PAC FAB®* DIRECT REPLACEMENT POOL PUMP MOTORS



B1000

APPLICATIONS:

Commercial Pools

FEATURES:

- Open Dripproof
- Sealed Ball Bearings
- Threaded Shaft
- Rotation: CCW Pump End
- Reversible
- 40°C Ambient
- Stainless Shaft
- Class B Insulation
- Single and Three Phase
- No Base
- 60 Hz

SINGLE PHASE - PERMANENT SPLIT CAPACITOR

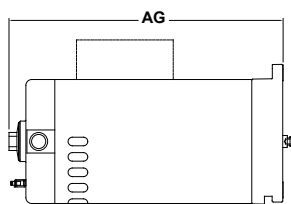
HP	SERVICE FACTOR	RPM	VOLTS	SERVICE FACTOR AMPS	PROTECTOR	FRAME	STOCK NUMBER	PAC FAB* NUMBER	APPROX "AG"	NOTES
5	1.00	3450	208-230	21.0-19.4	Auto	56Y	B1000	35-5705	14.5	

THREE PHASE

HP	SERVICE FACTOR	RPM	VOLTS	SERVICE FACTOR AMPS	PROTECTOR	FRAME	STOCK NUMBER	PAC FAB* NUMBER	APPROX "AG"	NOTES
3	1.15	3450	208-230/460	9.8-9.6/4.8	None	56Y	H755	Various	13.5	90
5	1.00	3450	208-230/460	13.4-13.4-6.7	None	56Y	H995	35-5704	14.5	

NOTES	
90	50 degree C ambient

*Attribution statement appears on last page.



SQUARE FLANGE

HAYWARD®* NORTHSTAR®* DIRECT REPLACEMENT PUMP MOTORS

OEM DIRECT REPLACEMENT



USN1202

APPLICATIONS:

Inground Swimming Pools

FEATURES:

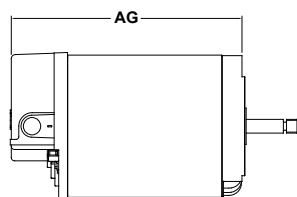
- Automatic Thermal Protection
- Open Dripproof
- Sealed Ball Bearings
- Single Speed
- Rotation: CCW Pump End
- 50°C Ambient
- Stainless Shaft
- 60 Hz
- Class B Insulation
- Permanent Split Capacitor Switchless Design

FULL RATE

HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	RPM	VOLTS	AMPS	FRAME	STOCK NUMBER	NORTHSTAR* NUMBER	APPROX "AG"
0.75		1.85		1.39	3450	208-230/115	6.0-5.5/11.0	56J	SN1072	SP1607Z1BNSC	10.54
1.00		1.85		1.85	3450	208-230/115	8.5-7.8/15.6	56J	SN1102	SP1610Z1BNSC	10.79
1.50		1.60		2.40	3450	208-230/115	11.0-10.2/20.4	56J	SN1152	SP1615Z1BNSC	11.29
2.00		1.35		2.70	3450	208-230	13.0-11.8	56J	SN1202	SP1620Z1BNSC	12.04
3.00		1.60		4.80	3450	208-230	20.6-19.0	56J	SN1302	SP1630Z1BNSC	13.54

UP-RATED

HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	RPM	VOLTS	AMPS	FRAME	STOCK NUMBER	NORTHSTAR* NUMBER	APPROX "AG"
1.00		1.40		1.40	3450	208-230/115	6.0-5.5/11.0	56J	USN1102	SP1607Z1MNSC	10.54
1.50		1.25		1.88	3450	208-230/115	8.5-7.8/15.6	56J	USN1152	SP1610Z1MNSC	10.79
2.00		1.20		2.40	3450	208-230/115	11.0-10.2/20.4	56J	USN1202	SP1615Z1MNSC	11.29
2.50		1.10		2.75	3450	208-230	13.0-11.8	56J	USN1252	SP1602Z1MNSC	12.04
3.00		1.20		3.60	3450	208-230	16.0-14.8	56J	USN1302	SP1625Z1MNSC	12.29



C-FACE

*Attribution statement appears on last page.

HAYWARD®* TRISTAR®* DIRECT REPLACEMENT PUMP MOTORS

FULL RATE SQUARE FLANGE



HSQ1152

APPLICATIONS:

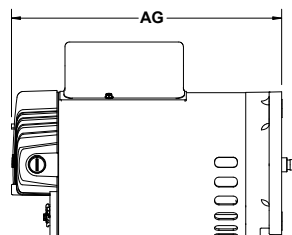
Inground Swimming Pools

FEATURES:

- Automatic Thermal Protection
- Single Speed
- Capacitor Start/Capacitor Run
- Open Dripproof
- Sealed Ball Bearings
- Rotation: CCW Pump End
- 60°C Ambient
- Stainless Shaft
- 60 Hz
- Single Phase
- Class F Insulation
- UL 1081 Design
- Square flange

HP	X	SERVICE FACTOR	=	TOTAL HORSEPOWER	RPM	VOLTS	AMPS	FRAME	STOCK NUMBER	TRISTAR* NUMBER	APPROX "AG"	NOTES
0.50		1.99		1.00	3450	115/208-230	8.6/5.0-4.3	56Y	HSQ1052	SP3205Z1BE	10.54	
0.75		1.85		1.39	3450	115/208-230	11.6/7.0-5.8	56Y	HSQ1072	SP3207Z1BE	10.785	
1.00		1.85		1.85	3450	115/208-230	15.0/8.8-7.5	56Y	HSQ1102	SP3210Z1BE	11.285	
1.50		1.60		2.40	3450	115/208-230	20.0/12.0-10.0	56Y	HSQ1152	SP3215Z1BE	12.035	
2.00		1.35		2.70	3450	208-230	12.0-11.0	56Y	HSQ1202	SP3220Z1BE	13.535	
3.00		1.20		3.60	3450	208-230	15.4	56Y	HSQ1302	SP3230Z1BE	12.035	68
5.00		1.00		5.00	3450	208-230	22.0	56Y	HSQ1502	SP3240Z1ME	13.535	68, 90

NOTES	
68	Permanent split capacitor motor
90	50 degree C ambient



SQUARE FLANGE

*Attribution statement appears on last page.

THE IMPORTANCE OF UNDERSTANDING A NAMEPLATE

READING AND UNDERSTANDING A MOTOR'S NAMEPLATE IS KEY IN CHOOSING THE CORRECT MOTOR

A replacement motor must be capable of carrying the same load as the motor it is replacing, assuming that the original motor was sized correctly. Much of the information you need to identify an electric motor is contained on the motor's nameplate. The nameplate also provides some basic information about a motor's operating characteristics. Proper motor selection is extremely important for safe, efficient, and

reliable motor operation. You must fully understand motor nameplate data in order to select the right motor for each application. If an exact match between an old motor and its replacement is not possible, you must be able to determine the most appropriate replacement.

HORSEPOWER AND SERVICE FACTOR

The idea behind the service factor (SF) is to provide an extra margin of safety in motor operation. This extra strength is designed into the motor to allow it to operate at some specified higher load than the motor's rated load.

Basically, the horsepower (HP) stated on the nameplate multiplied by the service factor equals the maximum allowable loading, or total horsepower (THP). The service factor defines the maximum overload the motor can handle when operating at rated voltage and frequency. Thus, a 1 HP motor with 1.5 SF can safely produce up to 1.5 horsepower to move a load (1 HP times 1.5 SF = 1.5 THP).

The best procedure in replacing any motor when an exact match of HP and SF is not available is to multiply the nameplate horsepower of the old motor times its service factor to determine the THP. Make certain the replacement motor has a maximum horsepower equal to or slightly higher than the old motor. Handling a continuous load greater than that allowed by the service factor will cause the motor's thermal protection device to trip. If the situation is not corrected, continued operation will eventually damage the motor.

FRAME SIZE

Standard frame sizes are defined by the National Electrical Manufacturer's Association (NEMA®). Each NEMA® size defines specific critical dimensions. Frame size is very important in replacing an old motor with a new model or a motor from a different manufacturer. A new motor with a frame size that is different from the old motor may not fit. The most common fractional horsepower motor frame sizes are NEMA 42, 48, and 56. Integral horsepower (IHP) frame sizes are NEMA 140, 180, and larger.

SPEED

The speed at which the motor operates is a critical factor in motor selection. Motor speed must match the needs of the application. Motors are rated according to their speed in revolutions per minute (RPM) at rated horsepower, voltage, and frequency. The actual motor speed under load will vary slightly due to the actual voltage and loading.

Motor speed is determined by the number of poles the motor contains. Two-pole motors operate at 3450 rpm, and 8-pole motors at 850 rpm. The replacement motor must have the same number of electrical poles as the motor it is replacing, not just the same approximate speed.

VOLTAGE

The motor voltage rating must match the voltage of the electrical supply. Fractional horsepower motors can have voltage ratings of 115, 200, 208, 230, or 460 volts. The most common ratings are for 115 and 230 volts. A dual-voltage motor, such as a 115/230 volt motor, can be used with either of the listed power supply voltages. Especially in the case of dual-voltage motors, refer to the connection diagram for proper installation.

*Attribution statement appears on last page.

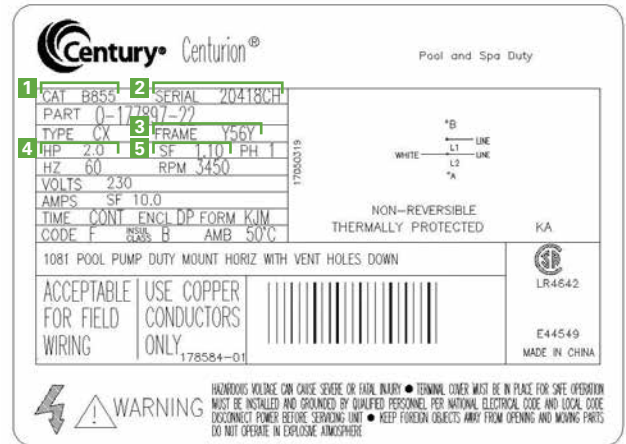
GENERAL INFORMATION

UNDERSTANDING DATE CODES ON NAMEPLATES

1. Locate the alpha/alphanumeric code in the SER or SERIAL field of nameplate. On VGreen® motors, this code begins with the letter "S" and is placed above the barcode within the nameplate.
2. The first three digits indicate the day of the year the motor was manufactured. The next two digits indicate year the motor was manufactured.

S216170000012 = The 216th day of 2017 or August 4, 2017
 20418CH = The 204th day of 2018 or July 23, 2018

1. **CATALOG OR PART NUMBER** - The ID number
2. **SERIAL DATE CODE** - The month and year manufactured
 [204th day of 2018]
3. **FRAME** - Size and type
4. **HORSEPOWER** - HP x SF = Total Horsepower
5. **SERVICE FACTOR**



WARRANTY

Regal offers the warranty set forth in its Standard Terms and Conditions of Sale accessible from Regal's website: www.regalbeloit.com (look for link to "Standard Terms and Conditions of Sale" at bottom of page).

MOTOR TYPE	Warranty Period from First use of the Product*	Warranty Period from Date of Manufacture of the Product*
Standard Induction Motors	12	18
VGreen® Variable Speed Motors	18	24
VLink® Wireless User Interface	18	24

* Warranty period shown is in months, and is valid for whichever period expires first.

E-TOOLS MATCHED TO THE WAY YOU WORK

Our comprehensive product offering is instantly visible online, not to mention in the palm of your hand. New websites are gearing up to provide lightning-fast product comparisons. Finding and specifying Century® brand motors will never be the same, whether you're behind a desk or in the field.

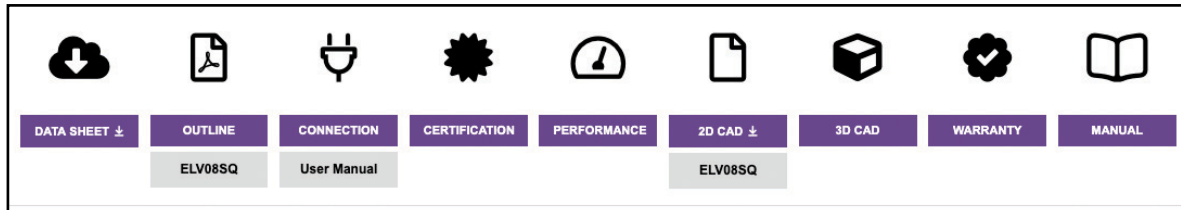
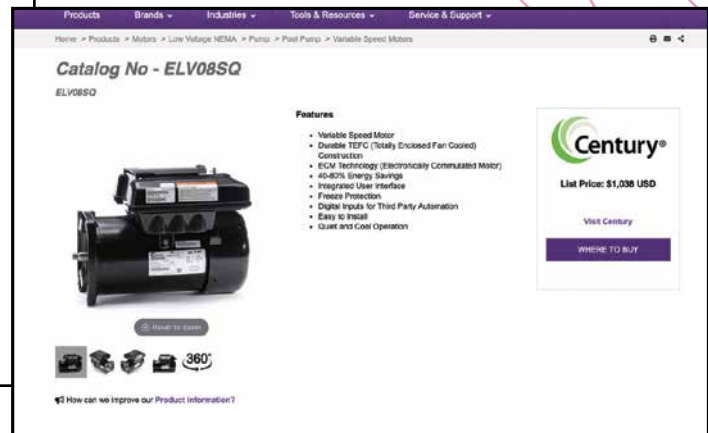
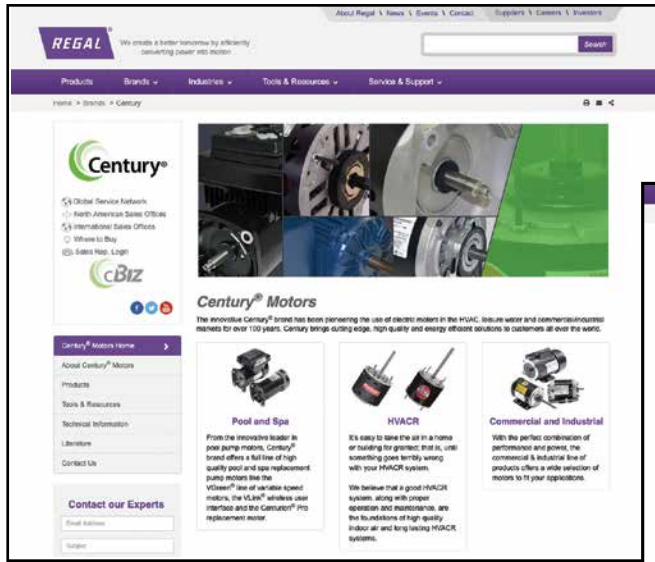


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REGALBELOIT.COM

FEATURES:

- In depth information about Regal® brands and products
- Competitive cross-reference tool
- Robust product information details
- Rotating 360° views of products
- View products based on solution and application within a specific industry
- Access to dimensional drawings, CAD files, connection diagrams and more



CUSTOMER SEARCH:

Search for products by part number, by product family, by industry, by application, by brand, by solution, by cross reference, by configurator, with engineering tools and more. It is a 360° model designed to guide you to the right item.

INFORMATIONAL TOOL:

The website is packed with information, data, industry facts and statistics.

Regalbeloit.com

PARTS AND ACCESSORIES

CAPACITORS

PART NO.	DESCRIPTION	MFD RATING	VOLTAGE
10003946-001-001	CAPACITOR KIT-RUN	30 mFd	440 VAC
628308-405	CAPACITOR KIT-RUN	25 mFd	440 VAC
19566225	CAPACITOR-RUN	10/25 mFd	370 VAC
19566235	CAPACITOR-RUN	10/35 mFd	370 VAC
2522881-001	CAPACITOR-RUN	35 mFd	440 VAC
628308-407	CAPACITOR-RUN	30 mFd	440 VAC
628318-307	CAPACITOR-RUN	25 mFd	370 VAC
628318-308	CAPACITOR-RUN	30 mFd	370 VAC
628318-309	CAPACITOR-RUN	35 mFd	370 VAC
628318-313	CAPACITOR-RUN	50 mFd	370 VAC
628318-314	CAPACITOR-RUN	55 mFd	370 VAC
628318-315	CAPACITOR-RUN	60 mFd	370 VAC
TRC25	CAPACITOR-RUN	25 mFd	370 VAC
15769523	CAPACITOR-START	108-130 mFd	110 VAC
15769623	CAPACITOR-START	161-193 mFd	125 VAC
15769728	CAPACITOR-START	124-149 mFd	165 VAC
15769815	CAPACITOR-START	53-64 mFd	220 VAC
15769903	CAPACITOR-START	53-64 mFd	250 VAC
10003237-001-013	CAPACITOR-START	53-64 mFd	250 VAC
10003237-001-049	CAPACITOR-START	161-193 mFd	110 VAC
610807-001	CAPACITOR-START	124-148 mFd	125 VAC
610807-011	CAPACITOR-START	36-43 mFd	250 VAC
610807-032	CAPACITOR-START	189-227 mFd	250 VAC
PMJ124	CAPACITOR-START	124-149 mFd	110 VAC
PMJ145	CAPACITOR-START	145-174 mFd	110 VAC
PMJ189	CAPACITOR-START	189-227 mFd	110 VAC
PTMJ53	CAPACITOR-START	53-64 mFd	220 VAC

SWITCHES, TERMINAL BOARDS, COVERS & KITS

PART NO.	DESCRIPTION
630746-001	56 FRAME NEW CENTURION CANOPY
18374501	CANOPY KIT WITH TOGGLE SWITCH (ON/OFF) FOR 48 FRAME THRU BOLT MOTORS
18313301	CANOPY KIT WITH TWO SPEED TOGGLE SWITCH (LO/OFF/HI) FOR 48 FRAME THRU BOLT MOTORS
1011431-001	CANOPY KIT WITH TWO SPEED TOGGLE SWITCH (LO/OFF/HI) FOR 48 FRAME TWO COMPARTMENT MOTORS
2512558-001	CANOPY KIT WITH TWO SPEED TOGGLE SWITCH (LO/OFF/HI) FOR 56 FRAME TWO SPEED MOTORS
615332-002	CANOPY KIT WITH TWO SPEED TOGGLE SWITCH (LO/OFF/HI) FOR 48 FRAME TWO COMPARTMENT MOTORS
629002-002	SWITCH KIT
610801	TERMINAL BOARD ASSEMBLY
17948001	TERMINAL BOARD ASSEMBLY
628401-001	TERMINAL BOARD ASSEMBLY WITH VOLTAGE SWITCH
17590450	TERMINAL COVER KIT WITH SWITCH (LO/OFF/HI) FOR 48 FRAME TWO COMPARTMENT MOTORS

VGREEN® ACCESSORIES & PARTS

PART NO.	DESCRIPTION
2512723-001	VGREEN® 270 OFF BOARD MOUNTING KIT
2517030-001	VGREEN 270 REPLACEMENT USER INTERFACE
2517501-001	VGREEN AUTOMATION ADAPTER KIT - GRAY
2517501-002	VGREEN AUTOMATION ADAPTER KIT - BLACK
2520652-001	VGREEN AFUI KIT

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B116	57	13
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B121	24	13
B122	26	13
B123	33	13
B124	32	13
B125	40	13
B126	22	13
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B130	29	13
B131	40	13
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B2232	26	18
B2233	29	18
B2234	34	18
B2235	38	18
B227SE	24	13
B228SE	26	13
B229SE	25	13
B230SE	34	13
B231SE	29	13
B236	46	18
B237	22	18
B238V1	21	18
B2661	28	14
B2748	33	14
B2840	31	14
B2841V1	30	14
B2842	35	14
B2843	37	14
B2844	37	14
B2846	23	14
B2847V1	26	14
B2848	27	14
B2852	21	14
B2853	25	14
B2854	29	14
B2858	35	14
B2859	36	14
B2973	28	16
B2975	32	16
B2977	34	16
B2979	36	16
B2980	31	16
B2981	32	16
B2982	34	16
B2983	38	16

STOCK NUMBER	WEIGHT (LB)	PAGE NUMBER
B2984	37	16
B2987	43	16
B625	27	24
B638	30	13
B653	33	13
B654	32	13
B657	29	13
B662	22	24
B663	25	24
B667	26	24
B668	24	24
B795	32	13
B796	36	13
B808	39	13
B809	40	13
B817	40	13
B818	40	13
B835	37	13
B836	37	13
B845	20	14
B849	32	14
B855	33	14
B966	41	16
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B970	24	16
B971	26	16
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B974	32	16
B976	32	16
B978	36	16
B985	37	16
BG128A	26	8
BG129A	35	8
BG130A	32	8
BG131A	39	8
BG2844A	40	8
BG748A	33	8
BG853A	28	8
BG854A	29	8
BG855A	31	8
BN23V1	13	17
BN24V1	18	17
BN25V1	18	17
BN34V1	27	17
BN35V1	20	17
BN36	23	17
BN37V1	25	17
BN40SS	34	17
BN50V1	27	17

STOCK NUMBER	WEIGHT (LB)	PAGE NUMBER
BN51	29	17
BN61	30	17
BN62	32	17
BN63	33	17
BV90	16	23
BV91	16	23
CEQ500	77	22
CEQ750	84	22
CEQK1000	105	22
CEQK1500	119	22
CEQK500	93	22
CEQK750	119	22
CK1052	22	10
CK1072	25	10
CK1102	27	10
CT1052	23	10
CT1072	25	10
CT1102	27	10
ECM16CU	30	3
ECM16SQU	29	3
ECM27CU	41	3
ECM27SQU	41	3
ELV08C	26	3
ELV08SQ	30	3
ELV08TB	25	3
EPA16SQ	28	3
H281	21	20
H282	22	20
H451	27	20
H491	21	20
H492	25	20
H513	27	20
H514	27	20
H616	31	20
H617	31	20
H635	28	20
H636	31	20
H637	37	20
H704	36	20
H705V1	35	20
H740	37	20
H741	36	20
H755	35	20,26
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HBA125	21	2,7
HBA165	21	2,7
HBA220	21	2,7
HBA260	25	2,7
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PREMIUM MOTORS

LEGACY MOTORS

OEM DIRECT REPLACEMENT MOTORS

GENERAL INFORMATION

PARTS AND ACCESSORIES

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PREMIUM MOTORS

STOCK NUMBER	WEIGHT (LB)	PAGE NUMBER
HBC080	23	2,6
HBC110	25	2,6
HBC150	25	2,6
HBC200	33	2,6
HBC240	32	2,6
HBC345	25	2,6
HBQ095	21	2,6
HBQ125	21	2,6
HBQ165	21	2,6
HBQ220	21	2,6
HBQ260	25	2,6
HBQ345	40	2,6
HSQ095	19	5
HSQ125	23	5
HSQ165	27	5
HSQ220	33	5
HSQ260	33	5
HSQ1052	28	28
HSQ1072	31	28
HSQ1102	33	28
HSQ1152	36	28
HSQ1202	38	28
HSQ1302	46	28
HSQ1502	46	28
HST080	18	5
HST110	21	5
HST150	29	5
HST225	32	5
HST275	33	5
K3072	18	19
K3102	20	19
K3152	26	19
K3202	27	19
Q3052	19	19
Q3072	18	19
Q3102	23	19
Q3152	26	19
Q3202	28	19
Q3302V1	33	19
QC1052	24	12
QC1072	25	12
QC1102	31	12
R232M2A	100	25
R237M2A	76	25
R257M2	111	25
R338M2A	108	25
R339M2A	127	25
SDS1102	32	21
SDS1152	32	21

LEGACY MOTORS

STOCK NUMBER	WEIGHT (LB)	PAGE NUMBER
SDS1202	31	21
SDS1252	33	21
SDS1302	34	21
SK1052	19	10
SK1072	22	10
SK1102	27	10
SK1152	30	10
SK1202	32	10
SK1302V1	44	10
SN1072	31	27
SN1102	33	27
SN1152	34	27
SN1202	37	27
SN1302	47	27
SQ1032	16	12
SQ1052	19	12
SQ1072	23	12
SQ1102	27	12
SQ1152	31	12
SQ1202	34	12
SQ1302V1	43	12
SQG1202A	34	8
SQG1302A	44	8
SQL1072R	26	15
SQS1102R	31	15
SQS1152R	33	15
SQS1202R	43	15
ST1052	18	10
ST1072	21	10
ST1102	26	10
ST1152	32	10
ST1202	34	10
ST1302V1	44	10
STG1102A	28	8
STG1202A	34	8
STG1302A	44	8
STS1102RV1	28	15
STS1152R	32	15
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T3072	21	19
T3102	22	19
T3152	26	19
T3202	27	19
UCT1072	22	11
UCT1072V1	21	11
UCT1102	25	11
UCT1152	27	11
UQC1072	24	12
UQC1072V1	23	12

OEM DIRECT REPLACEMENT MOTORS

STOCK NUMBER	WEIGHT (LB)	PAGE NUMBER
UQC1102	25	12
UQC1152	30	12
USN1102	27	27
USN1152	33	27
USN1202	35	27
USN1252	37	27
USN1302	39	27
USQ1052	17	12
USQ1072	18	12
USQ1102	22	12
USQ1152	26	12
USQ1202	29	12
USQ1252	32	12
USQG1072A	27	8
USQG1102A	28	8
USQG1152A	28	8
UST1072	20	11
UST1102	22	11
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GENERAL INFORMATION

PARTS AND ACCESSORIES

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LaVergne, TN 37086
Customer Service: 866-887-5216
Fax: 800-468-2062

www.regalbeloit.com

APPLICATION CONSIDERATIONS

The proper selection and application of pump motors and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and/or its affiliates ("Regal") with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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- Hayward, Northstar and Tristar are believed to be the trademarks or trade names of Hayward Industries, Inc.
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- Letro and Jet-Vac are believed to be the trademarks or trade names of Letro Products, Inc.
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