



# SWIMMING POOL PUMP MOTORS

## SINGLE PHASE

### COMMERCIAL DUTY SWIMMING POOL MOTORS



#### General Specifications:

Cast iron NEMA 56 C face mounting face or aluminum as noted. Mechanical bearing lock—shaft-end. Fully enclosed endbell at switch-end. Protected “double contact” starting switch with dual contact switch circuit providing maximum starting dependability. Reliable, field proven, corrosion resistant rotating switch. Stator impregnated with extra heavy varnish system. High temperature copper magnet wire providing extended motor life. “Low voltage” run capabilities. “Super Hush” flow-through ventilation system (exhaust shaft-end). Gaskets supplied under conduit cover and capacitor case giving added environmental protection. 1/2" NPT pipe tap supplied in “built-in” conduit box. Grounding provisions inside terminal panel plus external provision. High overload capacities provided by service factor.

#### Shaft Material:

Keyed shafts are made of carbon steel. Threaded shafts are 303 stainless steel. Shafts are CW rotation, facing lead end.

#### Bearings:

304 Double-sealed ball bearing, shaft-end; 203 Double-shielded ball bearing, switch-end.

#### Terminal Boards:

¼" quick connects (keyed shaft motors are reversible).

#### U.L. and C.S.A. Recognized:

Motor components (UL File No. #57948).

Class “B” insulation system (UL File No. E55555).

Thermal protector/winding combination (UL No. E56955)

through 1HP. C.S.A. listed through 1HP (Report No. LR33543).

#### SERVICE FACTORS FOR SWIMMING POOL MOTORS

HP	Service Factor
1/2	1.60
3/4	1.50
1	1.40
1½	1.30
2	1.25
3	1.15

### KEYED SHAFT • ALUMINUM C FACE LESS BASE SINGLE PHASE • DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	“C” Dim. (Inches)
1/2	3450	S56C	101524	A	19	115/208-230	Auto.	3.4	10.05
3/4	3450	S56C	101525	A	22	115/208-230	Auto.	5.1	10.55
1	3450	S56C	101526	A	25	115/208-230	Auto.	5.7	11.05
1½	3450	56C	113686	A	30	115/208-230	Auto.	9.0	11.88

### KEYED SHAFT • CAST IRON C FACE LESS BASE SINGLE PHASE • DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	“C” Dim. (Inches)
1/2	3450	56C	110278	A	24	115/208-230	Auto.	4.2	10.56
3/4	3450	56C	110241	A	29	115/208-230	Auto.	5.2	11.15
1	3450	56C	110242	A	31	115/208-230	Auto.	6.8	11.15
1½	3450	56C	110243	A	36	115/208-230	Auto.	9.0	11.55
2	3450	56C	110279	A	40	115/208-230	Auto.	10.5	12.55
3	3450	56C	110280☆	A	49	230	Auto.	12.8	13.55

### THREADED SHAFT • ALUMINUM C FACE LESS BASE SINGLE PHASE • DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	“C” Dim. (Inches)
1/2	3450	S56J	101527+	A	20	115/208-230	Auto.	3.4	10.56
3/4	3450	S56J	101528+	A	23	115/208-230	Auto.	5.1	11.06
1	3450	S56J	101529+	A	24	115/208-230	Auto.	5.7	11.56
1½	3450	56J	113687+	A	30	115/208-230	Auto.	9.0	12.40

### THREADED SHAFT • CAST IRON C FACE LESS BASE SINGLE PHASE • DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	F.L. Amps 230V	“C” Dim. (Inches)
1/2	3450	56J	110281+	A	25	115/208-230	Auto.	4.2	10.55
3/4	3450	56J	110282+	A	30	115/208-230	Auto.	5.2	11.65
1	3450	56J	110283+	A	31	115/208-230	Auto.	6.8	11.65
1½	3450	56J	110284+	A	36	115/208-230	Auto.	9.0	12.15
2	3450	56J	110285+	A	41	115/208-230	Auto.	10.5	13.15
3	3450	56J	110286☆+	A	51	230	Auto.	12.8	14.15

+ Threaded shaft are fixed rotation—CW from lead end.

☆ Capacitor start/capacitor run design for reduced amperage, others are capacitor start/induction run.

# POOL AND JET PUMP MOTORS C-FACE, JET PUMP AND SQUARE FLANGE



## PERFORMA+ FHP POOL AND JET PUMP MOTORS

### General Specifications:

Energy-saving single-phase Permanent Split Capacitor *PERFORMA+* Pool and Jet Pump motors have separate compartment design required for many pool and spa applications. PSC design gives energy-efficient operation with no switches to wear or seize. Special balancing of FHP motors gives super quiet operation. Motors are connected for CW rotation, viewed from the lead end of the motor, and are not reversible. All designs – keyed and threaded – have 304 stainless steel shafts. Double-sealed bearings on both ends of the motor have high temperature grease for long life. Motors have external grounding lug and Class F insulation with Class B rise.

### Standards and Approvals:

UL component recognized, UL file number E57948

CSA certified for safety, CSA report number LR33543

Design complies with requirements for motor/pump/cord assemblies that must pass the UL 1081 water spray test.



### KEYED SHAFT • C FACE LESS BASE SINGLE PHASE • PSC • DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	Service Factor	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56C	<b>MK1052</b>	A	26	115/230	Auto.	1.95	4.9	11.75
3/4	3450	56C	<b>MK1072</b>	A	27	115/230	Auto.	1.65	5.2	11.75
1	3450	56C	<b>MK1102</b>	A	29	115/230	Auto.	1.5	5.1	12.73
1½	3450	56C	<b>MK1152</b>	A	37	230	Auto.	1.4	6.7	13.71
2	3450	56C	<b>MK1202</b>	A	37	230	Auto.	1.15	8.5	13.71



### THREADED SHAFT • C FACE LESS BASE SINGLE PHASE • PSC • DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	Service Factor	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56J	<b>MT1052</b>	A	26	115/230	Auto.	1.95	4.9	12.09
3/4	3450	56J	<b>MT1072</b>	A	27	115/230	Auto.	1.65	5.2	12.09
1	3450	56J	<b>MT1102</b>	A	29	115/230	Auto.	1.5	5.1	13.07
1½	3450	56J	<b>MT1152</b>	A	37	230	Auto.	1.4	6.7	14.05
2	3450	56J	<b>MT1202</b>	A	37	230	Auto.	1.15	8.5	14.05



### THREADED SHAFT • SQUARE FLANGE LESS BASE SINGLE PHASE • PSC • DRIP-PROOF

HP	RPM 60 Hz	NEMA Frame	Catalog Number	Disc. Sym.	App. Wgt. (lbs.)	Voltage	Over- load Prot.	Service Factor	F.L. Amps 230V	"C" Dim. (Inches)
1/2	3450	56Y	<b>MST1052</b>	A	26	115/230	Auto.	1.95	4.9	11.92
3/4	3450	56Y	<b>MST1072</b>	A	27	115/230	Auto.	1.65	5.2	11.92
1	3450	56Y	<b>MST1102</b>	A	29	115/230	Auto.	1.5	5.1	12.90
1½	3450	56Y	<b>MST1152</b>	A	37	230	Auto.	1.4	6.7	13.89
2	3450	56Y	<b>MST1202</b>	A	37	230	Auto.	1.15	8.5	13.89

### Separate Compartment Design

Locates the motor run capacitor, protector and terminal board in a separate compartment on the end of the motor. Protective cover protects these items from water spray as defined by the UL1081 specification and provides for convenient servicing. Complies with requirements of UL1081 standard for motor/pump/cord assemblies used on swimming pool pumps; pump filter combinations, and chlorinators. Stub shaft with flats in accessible for wrenching when attaching pump impeller.

