



Customer information packet

SUM70306

3HP, 1160RPM, 3PH, 60HZ, 180TY, XPNV, V1

Class - CLI GP C,D

Division - Not Applicable

Specifications

Enclosure	XPNV
Frame	180TY
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Phase	3
Agency Approvals	CCSA US
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Haz Area Temp Code	T3C
Heater Indicator	No Heater
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Motor Type	M
Mounting Arrangement	V1
Number of Poles	6
Product Family	Pump - Centrifugal
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.250 IN
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Part detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	85304
Layout	619738-001
Eff. date	12-10-2024
CD Diagram	
Poles	///
Leads	
Proprietary	False
Created date	10-26-2021

Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007MS										
CAT.NO.	SUM70306		SPEC NO.		S18-CWS0-0011					
SER.NO.				FRAME SIZE		180TY				
CONSTANT HP RPM	HP	RPM	VOLTS		AMPS		HZ		S.F.	
	3	1160	230/460		9.4/4.7		6-60		1.00	
	3	1160	230/460		9.4/4.7		60		1.15	
	@			HZ	CODE	H				
	TYPE	P	INSUL.CLASS		F	TORQUE		10:1_VT		DESIGN
D.E. BRG.	50BC02JPP30A		ENCL	TENV		DUTY	15 MIN		PH	3
O.D.E. BRG.	25BC02JPG30A		MOTOR WEIGHT					AMB	40	
	FINAL CONN VOLTAGE = 230 *15									
	MIN IN AIR ;SUB. IN SEWAGE /									
	WATER ONLY									

000613007RC		
CLASS I GROUP	C D X	NO.
CLASS II GROUP	X X X	
OPERATING TEMP CODE	T3C	

000692000MB	
SUITABLE FOR OPERATION ON PWM	
INVERTER EQUIPPED WITH IGBT	
DEVICES AND CAPABLE OF	
CARRIER	
FREQUENCY OF 2 KHZ MINIMUM	

000613007MS

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AC induction motor performance data

Record #85304 - Typical performance - not guaranteed values

Winding	06WGA0006
Type	0636M
Enclosure	TENV

Nameplate data

Rated Output	3
Volts	230/460
Full Load Amps	9.4/4.7
R.P.M.	1160
Hz	60
Phase	3
KVA Code	H
S.F.	1.15
NEMA Nom. Eff.	87.5
Power Factor	69
Duty	15 MIN
S.F. Amps	

460 V, 60 Hz:

High Voltage Connection

Full Load Torque	13.64 LB-FT
Start Configuration	direct on line
Breakdown Torque	38.33 LB-FT
Pull-up Torque	21.74 LB-FT
Locked-rotor Torque	27.7 LB-FT
Starting Current	26.19 A
No-load Current	2.57
Line-line Res. @ 25°C	4.53 Ω
Temp. Rise @ Rated Load	9°C
Temp. Rise @ S.F. Load	10°C
Locked-rotor Power Factor	30.7
Rotor inertia	0.338 lb-ft ²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	6	32	51	62	69	72	74	71
Efficiency	0	82.7	87.5	88.3	87.5	85.9	83.5	86.5
Speed	1199	1191	1182	1172	1162	1149	1132	1154
Line amperes	2.57	2.76	3.21	3.88	4.69	5.69	6.86	5.29

SPEED TORQUE / SPEED CURRENT CURVES





