



Customer information packet

SPM4117T

30HP, 1185RPM, 3PH, 60HZ, 326T, 1280M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	326T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM NEMA_PREMIUM WEEE CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	39.000 A @ 460.0 V 78.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part detail

Revision	C
Type	AC
Mech. spec.	12T116
Base	
Status	PRD/A
Elec. spec.	12WGZ338
Layout	12LYT116
Eff. date	12-09-2025
CD Diagram	CD0005
Poles	06
Leads	9#8
Proprietary	False
Created date	10-02-2023

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	39.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1280M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	30.71 IN
Power Factor	76
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4439B01C23L

CAT #	SPM4117T						SER #		CC	010A	WGT	675	LBS	
SPEC	12T116Z338						FRAME	326T	ENCL	TEFC	IP	55		
RATING	40C AMB-CONT						NEMA NOM.	EFF	94.1					
HP	30						VOLTS	230/460						
AMPS	78/39						RPM	1185			HZ	60		
PH	3	CL	F	CODE	K	DES	A	PF	76	%	SER.F.	1.15	SF AMP	
DE BRG	6312				ODE BRG	6312				LUBE	POLYREX EM			
INV TYPE:	VPWM		SL HZ	0.8	CHP	60	TO	90	1.5:1					
WK2	15.3		LBFT2	MAX RPM	1800	CT	6	TO	60	10:1				
MAG CUR	39/19.5					VT	3	TO	60	20:1				
						MEETS INTENT OF IEEE-45						FOR WEATHER PROTECTION		
CL I DIV 2 GRPS A,B,C,D						TEMP CODE	T3C	CL I INV TEMP CODE			T3	TEMP=	200	
CL I ZONE 2 GRPS				IIA,IIB,IIC		TEMP =	160		CL II INV TEMP CODE			T3	TEMP =	200 C
CL II DIV 2 GRPS F&G				TEMP CODE		T3C	1.0 SF ON PWM INVERTER			POWER				
CL II ZONE 22 GRPS IIIB				TEMP=		160								

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AC Induction Motor Performance Data

Record # 114398

Typical performance - not guaranteed values

Winding: 12WGZ338-R001			Type: 1280M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		30	Full Load Torque		133.1 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		78/39	Breakdown Torque		433 LB-FT		
R.P.M.		1185	Pull-up Torque		253 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque		288 LB-FT		
NEMA Design Code		A	KVA Code		K	Starting Current	285 A
Service Factor (S.F.)		1.15	No-load Current		19.6 A		
NEMA Nom. Eff.		94.1	Power Factor		76	Line-line Res. @ 25°C	0.20356 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		45°C		
S.F. Amps			Temp. Rise @ S.F. Load		54°C		
			Locked-rotor Power Factor		30.5		

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	58	70	76	79	81	78
Efficiency	89.9	93.6	94.4	94.3	93.9	93.3	94.1
Speed	1197.1	1193.8	1190.5	1186.9	1183	1178.4	1185
Line amperes	21.4	25.9	32.1	39.2	47.3	56.1	44.1

ABB Motors and Mechanical Inc.

WINDING # 12WGZ338

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1185 RPM 460 V 1280M

TORQUES (LB-FT): PO=433 PU=253 LR=288 LRA=285





