

ABB BALDOR RELIANCE III

Customer information packet

CSPM4117T

30HP, 1185RPM, 3PH, 60HZ, 326TC, 1280M, TEFC, F

Class - CLI GP A,B,C,D CLII GP F,G

Division - Division II

Specifications

Enclosure	TEFC
Frame	326TC
Frame Material	Cast Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D CLII GP F,G
Haz Area Division	Division II
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	CSA CURUSEEV NEMA_PREMIUM WEEE
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
Haz Area Temp Code	T3C

Part Detail

Revision	B
Type	AC
Mech. spec.	12T118
Base	
Status	PRD/A
Elec. spec.	12WGZ338
Layout	12LYT118
Eff. date	04-17-2026
CD Diagram	CD0005
Poles	06
Leads	9#8
Proprietary	False
Created date	09-19-2024

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	C-Face
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 #	CSPM4117T										SER #											CC	010A	WGT	675	LBS				
SPEC	12T118Z338										FRAME	326TC										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



