

ABB BALDOR RELIANCE III

Customer information packet

CEM4117T-G

30HP, 1180RPM, 3PH, 60HZ, 326TC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	326TC
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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
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	78.000 A @ 230.0 V 39.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	39.0 a

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY812
Layout	12LYH471
Eff. date	06-27-2024
CD Diagram	CD0005
Poles	06
Leads	9#8
Proprietary	False
Created date	03-06-2020

Insulation Class	H
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1264M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	30.28 IN
Power Factor	78
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 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

NP3443LUA												
CAT.NO.	CEM4117T-G			CUST. P/N				ENCL				TEFC
SPEC.	12-0000-1538	CC	010A	FRAME	326TC	SER.NO.						
HP	30		CLASS	H	HZ	60						
R.P.M.	1180		PH.	3	DES.	A						
VOLTS	230/460		CODE		H	ODE BRG		6311	DE BRG	6312		
AMPS	78/39											
RATING	40C AMB-CONT		NEMA NOM. EFF.			93	GREASE		POLYREX EM			
P.F.	78	SER.F.	1.15	CT6-60H(10:1)VT3-60H(20:1								
USABLE AT	50HZ 30HP 190/380V 92/46A			SF1.0								
VOLTS	AMPS	MAX. SPACE HEATER TEMP.										

AC Induction Motor Performance Data

Record # 47206

Typical performance - not guaranteed values

Winding: 12WGY812-R005			Type: 1264M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		30	Full Load Torque		133 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		78/39	Breakdown Torque		370 LB-FT		
R.P.M.		1180	Pull-up Torque		179 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		217 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		245 A
Service Factor (S.F.)		1.15		No-load Current		17.2 A	
NEMA Nom. Eff.		93	Power Factor	78	Line-line Res. @ 25°C		0.22799 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		56°C	
S.F. Amps				Temp. Rise @ S.F. Load		68°C	
				Locked-rotor Power Factor		27.5	
				Rotor inertia		12.2 lb-ft²	

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	63	73	78	80	80	79
Efficiency	89	92.7	93.4	93.1	92.4	91.4	92.7
Speed	1196.5	1191.9	1188.3	1183.2	1178.2	1171.8	1180
Line amperes	19.2	24.1	31	38.7	47.5	57.3	44

ABB Motors and Mechanical Inc.

WINDING # 12WGY812

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1180 RPM 460 V 1264M

TORQUES (LB-FT): PO=370 PU=179 LR=217 LRA=245





