

ABB BALDOR RELIANCE III

Customer information packet

HBAO4118T

25 AOHP, 3520RPM, 3PH, 60HZ, 284T, 0944M, TEAO

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	284T
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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	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	58.000 A @ 230.0 V 62.000 A @ 208.0 V 29.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Electrically Isolated Bearings
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	H
Type	AC
Mech. spec.	09T114
Base	
Status	PRD/A
Elec. spec.	09WGT577
Layout	09LYT114
Eff. date	11-14-2023
CD Diagram	CD0005
Poles	02
Leads	9#10
Proprietary	False
Created date	01-05-2022

High Voltage Full Load Amps	29.0 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	23.54 IN
Power Factor	88
Product Family	General Purpose
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	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3520 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

NP4312A01M01L																						
CAT #		HBAO4118T							SER #							CC				WGT	265	LBS
SPEC		09T114T577G1							RATING		40C AMB-CONT											
HZ		VOLTS				AMPS		RPM		HP		SF		NEMA NOM. EFF								
60		230/460				58/29						3520		25AO		1.15		91.7				
PH	3	CL	H	CODE	J	DES	A	ENCL	TEAO		IP		54	PF	88	%		AIR OVER				
DE BRG		6311					ODE BRG		6208					FRAME		284T						
INV TYPE:			VPWM			SL HZ		1.33	CHP	60	TO	90	1.5:1									
WK2		1.12		LB FT2			MAX RPM		5400	CT	6	TO	60	10:1								
12.2/10.1							VT		3	TO	60	20:1										
SFA 66.6/33.3																						
YR:																						

AC Induction Motor Performance Data

Record # 72878

Typical performance - not guaranteed values

Winding: 09WGT577-R003			Type: 0944M		Enclosure: TEFC			
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		25		Full Load Torque		37.39 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		58/29		Breakdown Torque		153 LB-FT		
R.P.M.		3520		Pull-up Torque		58.5 LB-FT		
Hz		60	Phase	3	Locked-rotor Torque		75 LB-FT	
NEMA Design Code		A	KVA Code		J	Starting Current		223 A
Service Factor (S.F.)		1.15		No-load Current		10.1 A		
NEMA Nom. Eff.		91.7	Power Factor		88	Line-line Res. @ 25°C		0.3381 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		74°C		
S.F. Amps				Temp. Rise @ S.F. Load		91°C		
				Locked-rotor Power Factor		29.7		

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	76	84	88	89	90	89
Efficiency	87.6	91.6	92.2	91.8	90.9	89.8	91.3
Speed	3580.5	3562.7	3544.2	3524	3501.4	3477.9	3510
Line amperes	12.3	16.9	22.7	29.1	36.1	43.5	33.3

ABB Motors and Mechanical Inc.

WINDING # 09WGT577

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 3520 RPM 460 V 0944M

TORQUES (LB-FT): PO=153 PU=58.5 LR=75 LRA=223





