

ABB BALDOR RELIANCE III

Customer information packet

M2332

10HP, 1175RPM, 3PH, 60HZ, 284U, 0946M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284U
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	10.000 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 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	37.000 A @ 208.0 V 28.800 A @ 230.0 V 14.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	J
Type	AC
Mech. spec.	09F608
Base	
Status	INA/A
Elec. spec.	09WGX829
Layout	09LYF608
Eff. date	09-01-2020
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	04-28-2010

High Voltage Full Load Amps	14.4 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0946M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	26.34 IN
Power Factor	73
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1175 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

NP1256L											
CAT.NO.											
SPEC.	09F608X829H2										
HP	10										
VOLTS	230/460										
AMP	28.8/14.4										
RPM	1175										
FRAME	284U		HZ	60				PH	3		
SER.F.	1.15	CODE	H	DES	B	CLASS		F			
NEMA-NOM-EFF	89.5	PF	73								
RATING	40C AMB-CONT										
CC	010A										
DE	6311		ODE	6208							
ENCL	TEFC	SN									

Accessories

Part number	Description	Multiplier
09-1310	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 1772

Typical performance - not guaranteed values

Winding: 09WGX829-R001			Type: 0946M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		10	Full Load Torque		44.6 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		28.8/14.4	Breakdown Torque		139 LB-FT		
R.P.M.		1175	Pull-up Torque		53.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		76.4 LB-FT	
NEMA Design Code		B	KVA Code	H	Starting Current		86.1 A
Service Factor (S.F.)		1.15	No-load Current		7.04 A		
NEMA Nom. Eff.		89.5	Power Factor	73	Line-line Res. @ 25°C		0.83 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		50°C
S.F. Amps					Temp. Rise @ S.F. Load		67°C
					Locked-rotor Power Factor		26
					Rotor inertia		3.7 LB-FT ²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	56	67	72	75	75	74
Efficiency	82.9	88.6	89.9	89.9	89.2	87.1	89.5
Speed	1195	1190	1184	1178	1171	1163	1174
Line amperes	7.82	9.42	11.61	14.38	17.56	21.2	16.29

ABB Motors and Mechanical Inc.

WINDING # 09WGX829

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1175 RPM 460 V 0946M

TORQUES (LB-FT): PO=139 PU=53.5 LR=76.4 LRA=86.1





