

ABB BALDOR RELIANCE III

Customer information packet

M4104

30HP, 1765RPM, 3PH, 60HZ, 326U, 1044M, TEFC, F1

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	326U
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	RG
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	37.000 A @ 460.0 V 74.000 A @ 230.0 V 79.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	37.0 a

Part Detail

Revision	L
Type	AC
Mech. spec.	10F644
Base	
Status	NLA/A
Elec. spec.	10WGX259
Layout	10LYF644
Eff. date	03-03-2016
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	04-29-2010

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1044M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.76 IN
Power Factor	82
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	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 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.	10F644X259H2								
HP	30								
VOLTS	230/460								
AMP	74/37								
RPM	1765								
FRAME	326U		HZ	60			PH	3	
SER.F.	1.15	CODE	G	DES	B	CLASS	F		
NEMA-NOM-EFF	92.4	PF	82						
RATING	40C AMB-CONT								
CC	010A								
DE	6312		ODE	6309					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 2576

Typical performance - not guaranteed values

Winding: 10WGX259-R001			Type: 1044M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		30		Full Load Torque		89.2 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		74/37		Breakdown Torque		253 LB-FT
R.P.M.		1765		Pull-up Torque		127 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		148 LB-FT
NEMA Design Code		B	KVA Code	Starting Current		217 A
Service Factor (S.F.)		1.15		No-load Current		14.63 A
NEMA Nom. Eff.		92.4	Power Factor	Line-line Res. @ 25°C		0.259 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		69°C
S.F. Amps				Temp. Rise @ S.F. Load		83°C
				Locked-rotor Power Factor		33
				Rotor inertia		3.5 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	69	78	82	84	84	83
Efficiency	86.2	91.2	92.4	92.4	91.9	91.1	92.1
Speed	1792	1784	1776	1768	1759	1749	1763
Line amperes	17.16	22.38	29.17	37	45.6	55.1	42.1

ABB Motors and Mechanical Inc.

WINDING # 10WGX259

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1765 RPM 460 V 1044M

TORQUES (LB-FT): PO=253 PU=127 LR=148 LRA=217





