

ABB BALDOR RELIANCE III

Customer information packet

EJMM4104T

30HP, 1770RPM, 3PH, 60HZ, 286JM, 1056M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	286JM
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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV 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	72.000 A @ 230.0 V 76.000 A @ 208.0 V 36.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AB
Type	AC
Mech. spec.	10E380
Base	
Status	PRD/A
Elec. spec.	10WGY758
Layout	10LYE380
Eff. date	09-10-2025
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	04-29-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	36.0 a
Insulation Class	F
Inverter Code	Inverter Ready
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	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.64 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Pump Coupling Shaft
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.250 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP3443LUA													
CAT.NO.	EJMM4104T				CUST. P/N				ENCL				TEFC
SPEC.	10E380Y758G1	CC	010A	FRAME	286JM	SER.NO.							
HP	30			CLASS	F	HZ	60						
R.P.M.	1770			PH.	3	DES.	A						
VOLTS	230/460			CODE	G	ODE BRG	6309	DE BRG	6312				
AMPS	72/36												
RATING	40C AMB-CONT			NEMA NOM. EFF.			93.6	GREASE	POLYREX EM				
P.F.	83	SER.F.	1.15	CT6-60H(10:1)VT3-60H(20:1									
USABLE AT	50HZ 30HP 190/380V 88/44A				SF1.0								
VOLTS	AMPS	MAX. SPACE HEATER TEMP.											

AC Induction Motor Performance Data

Record # 30986

Typical performance - not guaranteed values

Winding: 10WGY758-R001			Type: 1056M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		30	Full Load Torque			89.1 LB-FT
Volts		230/460	Start Configuration			direct on line
Full Load Amps		72/36	Breakdown Torque			270 LB-FT
R.P.M.		1770	Pull-up Torque			128 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		145 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current		235 A
Service Factor (S.F.)		1.15	No-load Current			15.9 A
NEMA Nom. Eff.	93.6	Power Factor	83	Line-line Res. @ 25°C		0.226 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load			57°C
S.F. Amps			Temp. Rise @ S.F. Load			70°C
			Locked-rotor Power Factor			32
			Rotor inertia			4.45 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	66	75	83	83	83	83
Efficiency	90.6	93.7	94.3	94	93.2	93	93.6
Speed	1794	1787	1781	1774	1766	1757	1769
Line amperes	17.9	23	30.1	36.2	45.3	54.5	41.7

ABB Motors and Mechanical Inc.

WINDING # 10WGY758

Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1770 RPM 460 V 1056M

TORQUES (LB-FT): PO=270 PU=128 LR=145 LRA=235





