

ABB BALDOR RELIANCE III

Customer information packet

VRBM3558T

2HP, 1700RPM, 3PH, 60HZ, 145TC, 3528M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Aluminum
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 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	C UR US
Ambient Temperature	40 °C
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.600 A @ 460.0 V 7.200 A @ 230.0 V
Design Code	D
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	3.6 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1

Part Detail

Revision	F
Type	AC
Mech. spec.	75J035
Base	
Status	PRD/A
Elec. spec.	75WGK323
Layout	75LYJ035
Eff. date	07-24-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	09-26-2024

Number of Poles	4
Overall Length	15.43 IN
Power Factor	64
Product Family	General Purpose
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1700 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1256L											
CAT.NO.	VRBM3558T										
SPEC.	75J035K323										
HP	2										
VOLTS	230/460										
AMP	5.8/2.9										
RPM	1700										
FRAME	145TC		HZ	60				PH	3		
SER.F.	1.15	CODE	L	DES	D	CLASS		F			
NEMA-NOM-EFF	82.5	PF	77								
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6205							
ENCL	TEFC	SN									
	SFA 7.76/3.88										

AC Induction Motor Performance Data

Record # 112777

Typical performance - not guaranteed values

Winding: 75WGK323-R001			Type: 7536M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		2	Full Load Torque		6.16 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		5.8/2.9	Breakdown Torque		35.6 LB-FT	
R.P.M.		1700	Pull-up Torque		24.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		30.6 LB-FT
NEMA Design Code		D	KVA Code		L	Starting Current
Service Factor (S.F.)		1.15	No-load Current		1.75 A	
NEMA Nom. Eff.		82.5	Power Factor		77	Line-line Res. @ 25°C
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps					Temp. Rise @ S.F. Load	
					Locked-rotor Power Factor	
					Rotor inertia	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	55	69	78	83	86	81
Efficiency	73.1	81.3	83.7	83.8	82.3	81	82.9
Speed	1780	1760	1737	1714	1687	1658	1698
Line amperes	1.83	2.08	2.45	2.88	3.43	4.02	3.21

ABB Motors and Mechanical Inc.

WINDING # 75WGK323

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1700 RPM 460 V 7536M

TORQUES (LB-FT): PO=35.6 PU=24.2 LR=30.6 LRA=24.2





