

ABB BALDOR RELIANCE III

Customer information packet

VEM3219T

7.5HP, 3480RPM, 3PH, 60HZ, 184TC, 3632M, ODP, F

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	184TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	8.810 A @ 460.0 V 19.500 A @ 208.0 V 17.600 A @ 230.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	A
Type	AC
Mech. spec.	36Q489
Base	
Status	PRD/A
Elec. spec.	36WGZ653
Layout	36LYQ489
Eff. date	01-12-2026
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	11-06-2025

High Voltage Full Load Amps	8.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3632M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.54 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3480 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

NP3553LUA									
CAT.NO.	VEM3219T								
SPEC.	36Q489Z653								
HP	7.5								
VOLTS	208-230/460								
AMPS	19.5-17.6/8.81								
RPM	3480								
FRAME	184TC		HZ	60			PH	3	
SF	1.15	CODE	L	DES	A	CLASS	F		
NEMA NOM. EFF	88.5	PF	90						
RATING	40C AMB-CONT								
CC	010A								
ENCL	ODP	SN							
DE	6206		ODE	6205					
VPWM INVERTER READY		SF1.0							
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50 HZ 190/380V 21.2/10.6A								

AC Induction Motor Performance Data

Record # 115763

Typical performance - not guaranteed values

Winding: 36WGZ653-R001			Type: 3632M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5		Full Load Torque		11.36 LB-FT	
Volts		208-230/460		Start Configuration		direct on line	
Full Load Amps		19.5-17.6/8.81		Breakdown Torque		70.5 LB-FT	
R.P.M.		3480		Pull-up Torque		39.5 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		45.1 LB-FT	
NEMA Design Code		A	KVA Code	L		Starting Current	88.3 A
Service Factor (S.F.)		1.15		No-load Current		3.3 A	
NEMA Nom. Eff.		88.5	Power Factor	90		Line-line Res. @ 25°C	1.6854 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		46°C	
S.F. Amps		22.3-20.1/10.1		Temp. Rise @ S.F. Load		58°C	
				Locked-rotor Power Factor		49.9	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	76	85	90	92	93	91
Efficiency	87.3	91	91.2	90.3	89	87.3	89.5
Speed	3571.7	3544.8	3514.9	3484	3450	3414	3464
Line amperes	3.82	5.12	6.8	8.69	10.7	13	9.9

ABB Motors and Mechanical Inc.

WINDING # 36WGZ653

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 3480 RPM 460 V 3632M

TORQUES (LB-FT): PO=70.5 PU=39.5 LR=45.1 LRA=88.3



