

ABB BALDOR RELIANCE III

Customer information packet

AOM3554T

1.5 AIR OVERHP, 1750RPM, 3PH, 60HZ, 145T, 352

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	145T
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 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	4.900 A @ 230.0 V 4.700 A @ 208.0 V 2.450 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	E
Type	AC
Mech. spec.	35K695
Base	
Status	PRD/A
Elec. spec.	35WZ923
Layout	35LYK695
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

High Voltage Full Load Amps	2.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.12 IN
Power Factor	70
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	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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.	AOM3554T								
SPEC.	35K695Z923G1								
HP	1.5 AIR OVER								
VOLTS	208-230/460								
AMP	4.7-4.9/2.45								
RPM	1750								
FRAME	145T		HZ	60		PH	3		
SER.F.	1.15	CODE	M	DES	B	CLASS	F		
NEMA-NOM-EFF	81.5	PF	70						
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEAO	SN							
	SFA 5.3-5.4/2.7								

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 88667

Typical performance - not guaranteed values

Winding: 35WGZ923-R001			Type: 3520M		Enclosure: TEAO	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5 AIR OVER	Full Load Torque		4.51 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		4.7-4.9/2.45	Breakdown Torque		20.99 LB-FT	
R.P.M.		1750	Pull-up Torque		16.79 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		18.03 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		19.58 A	
Service Factor (S.F.)		1.15	No-load Current		1.93 A	
NEMA Nom. Eff.		81.5 Power Factor	Line-line Res. @ 25°C		12.5 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		65°C	
S.F. Amps		5.3-5.4/2.7	Temp. Rise @ S.F. Load		74°C	
			Locked-rotor Power Factor		71.8	
			Rotor inertia		0.144 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	44	57	67	74	79	71
Efficiency	64.2	76.4	80.6	82	81.9	81.2	81.9
Speed	1788	1776	1763	1749	1734	1717	1740
Line amperes	1.96	2.09	2.29	2.57	2.91	3.3	2.77

ABB Motors and Mechanical Inc.

WINDING # 35WGZ923

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1750 RPM 460 V 3520M

TORQUES (LB-FT) : PO=20.99 PU=16.79 LR=18.03 LRA=19.58





