# BALDOR • RELIANCE II

# **Customer information packet** CESSWDM3546

1HP, 1770RPM, 3PH, 60HZ, 56C, 3522M, TENV, F1, N Class - None Division - Not Applicable

## Specifications

Enclosure	TENV
Frame	56C
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.340 A @ 230.0 V
	3.300 A @ 208.0 V
	1.670 A @ 460.0 V
Design Code	В
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

#### Part detail

F
AC
35W899
PRD/A
35WGZ818
35LYW899
06-14-2024
CD0005
04
9#18 Y
False
10-01-2021

Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	М
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	3522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.09 IN
Power Factor	66
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP1953A01											
CAT.NO.	CESSV										
SPEC.	35W899Z818G1										
НР	1										
VOLTS	230/460										
AMP	3.34/1										
RPM	1770										
FRAME	56C			HZ		60			РΗ		3
SER.F.	1.15	C	CODE	М		DES	В	CLASS		F	
NEMA-NOM-EFF	85.5		F	PF	6	56					
RATING	40C AN	40C AMB-CONT									
СС	010A										
DE	6205			ODE		6203					
ENCL	TENV	SN									
	10:1CT	20:1V7	Γ								

#### **AC Induction Motor Performance Data**

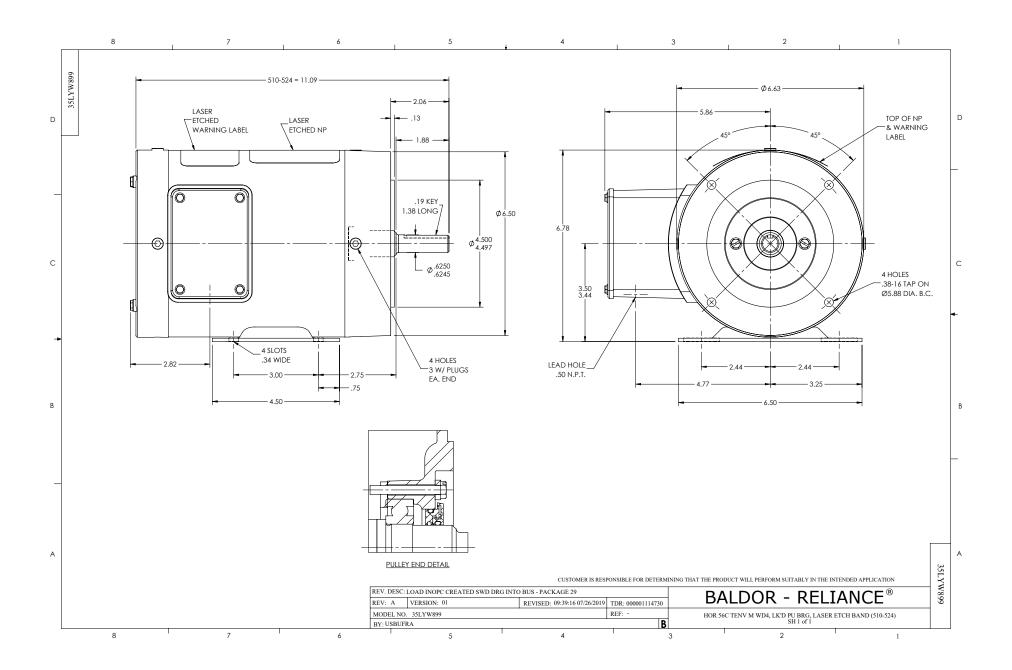
Record # 89784

Typical performance - not guaranteed values

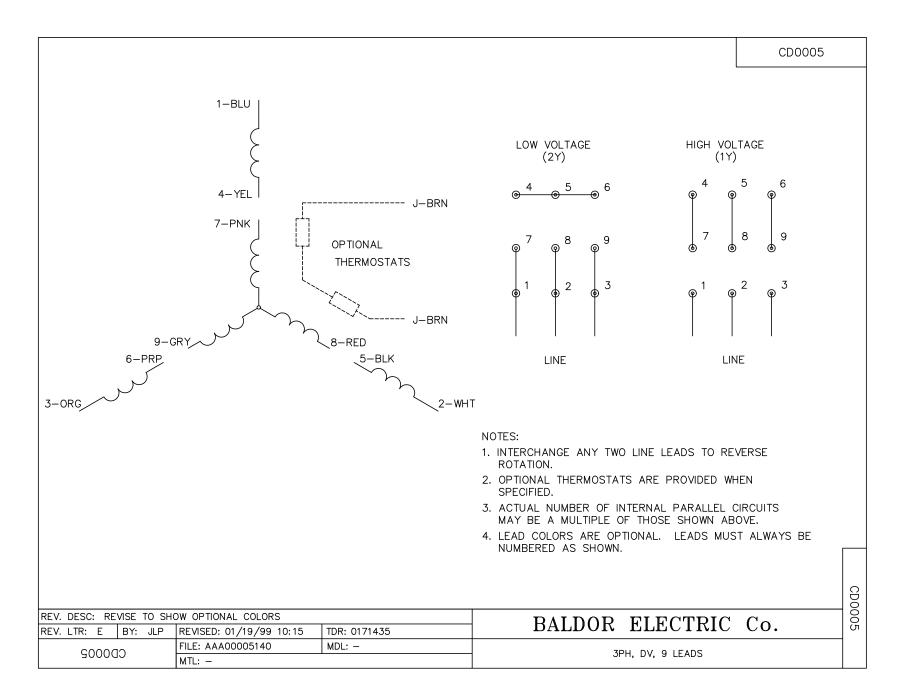
<b>Winding:</b> 35WGZ818-R002		3522M Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)		1	Full Load Torque	2.99 LB-FT
Volts		230/460	Start Configuration	direct on line
Full Load Amps		3.34/1.67	Breakdown Torque	16.6 LB-FT
R.P.M.		1770	Pull-up Torque	7.42 LB-FT
Hz	60 Phase	3	Locked-rotor Torque	10.32 LB-FT
NEMA Design Code	B <b>KVA Code</b>	М	Starting Current	16.1 A
Service Factor (S.F.)		1.15	No-load Current	1.23 A
NEMA Nom. Eff.	85.5 Power Factor	66	Line-line Res. @ 25°C	14.4 Ω
Rating - Duty	4	OC AMB-CONT	Temp. Rise @ Rated Load	63°C
S.F. Amps		3.5/1.75	Temp. Rise @ S.F. Load	71°C
			Locked-rotor Power Factor	60.4724
			Rotor inertia	0.159 lb-ft²

#### Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	43	56	66	73	78	72
Efficiency	70.8	81.2	84.5	85.9	85.8	85.2	85.5
Speed	1793	1786	1781	1773	1766	1758	1768
Line amperes	1.25	1.34	1.49	1.67	1.87	2.12	1.75



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