

**BALDOR • RELIANCE**

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# Customer information packet

## CESSWDM3546T-5

1HP, 1775RPM, 3PH, 60HZ, 143TC, 3522M, TEFC, F1

Class - None

Division - Not Applicable

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## Specifications

Enclosure	TEFC
Frame	143TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	UR CSA
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	1.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M

## Part detail

Revision	D
Type	AC
Mech. spec.	35VV818
Base	
Status	PRD/A
Elec. spec.	35WGG119
Layout	35LYVV818
Eff. date	02-19-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Finish</b>	UNPAINTED
<b>Motor Lead Quantity/Wire Size</b>	3 @ 18 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3522M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	13.42 IN
<b>Power Factor</b>	70
<b>Product Family</b>	Wash Down All Stainless Steel
<b>Pulley End Bearing Type</b>	Sealed Bearing
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	0.875 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1775 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

**NP1951A05**

<b>CAT.NO.</b>	CESSWDM3546T-5						
<b>SPEC.</b>	35VV818G119G1						
<b>HP</b>	1						
<b>VOLTS</b>	575						
<b>AMP</b>	1.3						
<b>RPM</b>	1775						
<b>FRAME</b>	143TC		<b>HZ</b>	60		<b>PH</b>	3
<b>SER.F.</b>	1.15	<b>CODE</b>	M	<b>DES</b>	B	<b>CLASS</b>	F
<b>NEMA-NOM-EFF</b>	85.5	<b>PF</b>	70				
<b>RATING</b>	40C AMB-CONT						
<b>CC</b>	010A						
<b>DE</b>	6205	<b>ODE</b>	6203				
<b>ENCL</b>	TEFC	<b>SN</b>					
	SFA 1.4						

**AC Induction Motor Performance Data**

Record # 99012

Typical performance - not guaranteed values

<b>Winding: 35WGG119-R001</b>		<b>Type: 3522M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	1	<b>Full Load Torque</b>	2.99 LB-FT		
<b>Volts</b>	575	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	1.2	<b>Breakdown Torque</b>	13.4 LB-FT		
<b>R.P.M.</b>	1770	<b>Pull-up Torque</b>	6.8 LB-FT		
<b>Hz</b>	60	<b>Locked-rotor Torque</b>	8.3 LB-FT		
<b>NEMA Design Code</b>	B	<b>Starting Current</b>	10.9 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	0.87 A		
<b>NEMA Nom. Eff.</b>	85.5	<b>Line-line Res. @ 25°C</b>	30.1 Ω		
<b>Rating - Duty</b>	40C	<b>Temp. Rise @ Rated Load</b>	36°C		
<b>S.F. Amps</b>	1.3	<b>Temp. Rise @ S.F. Load</b>	42°C		
		<b>Locked-rotor Power Factor</b>	63.4		
		<b>Rotor inertia</b>	0.159 lb-ft <sup>2</sup>		

**Load Characteristics 575 V, 60 Hz, 1 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	31	48	61	70	76	80	74
<b>Efficiency</b>	72.1	81.6	84.9	85.8	85.7	85	85.7
<b>Speed</b>	1794	1787	1781	1774	1767	1758	1770
<b>Line amperes</b>	0.89	0.97	1.1	1.26	1.44	1.65	1.37

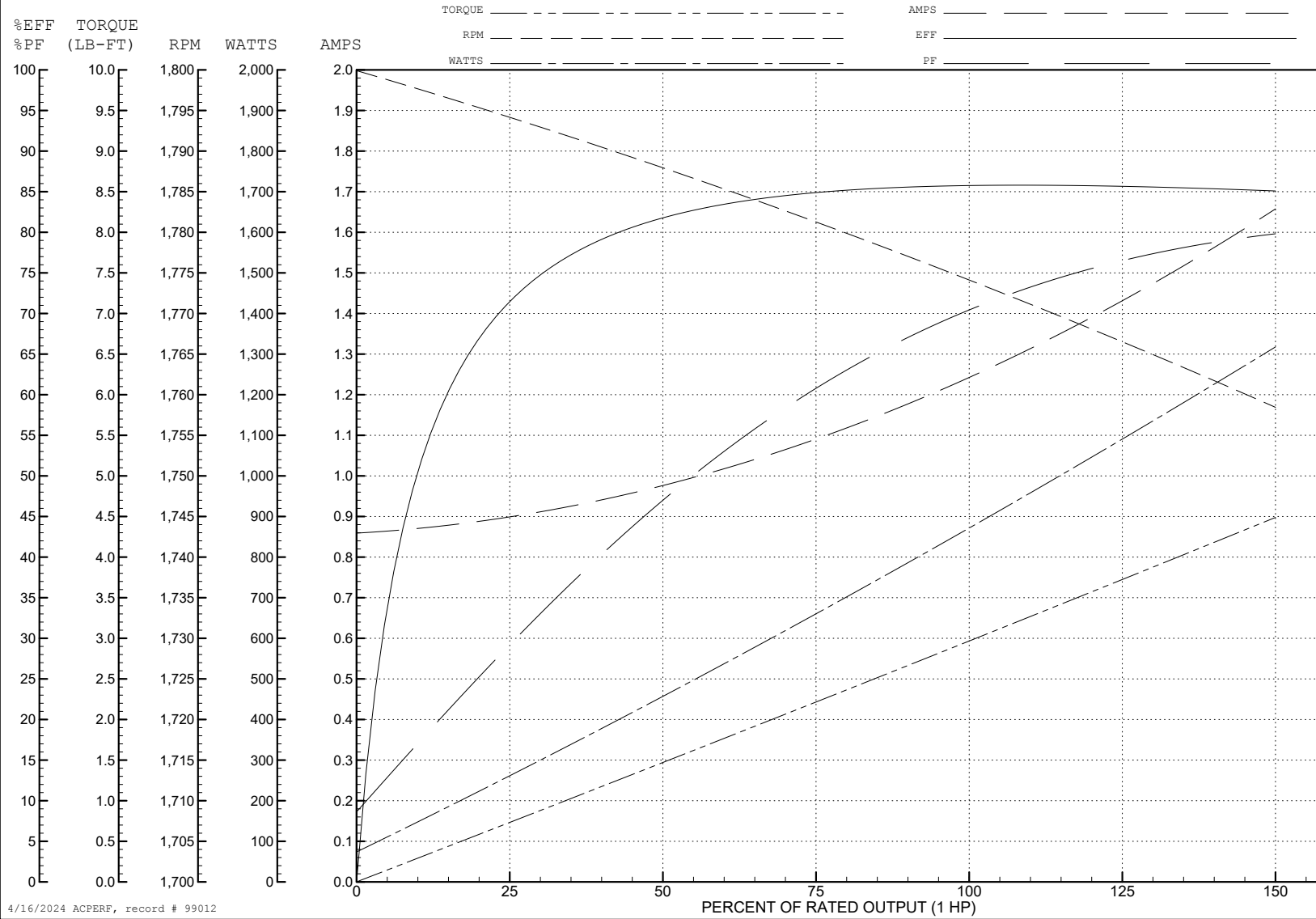
ABB Motors and Mechanical Inc.

WINDING # 35WGG119

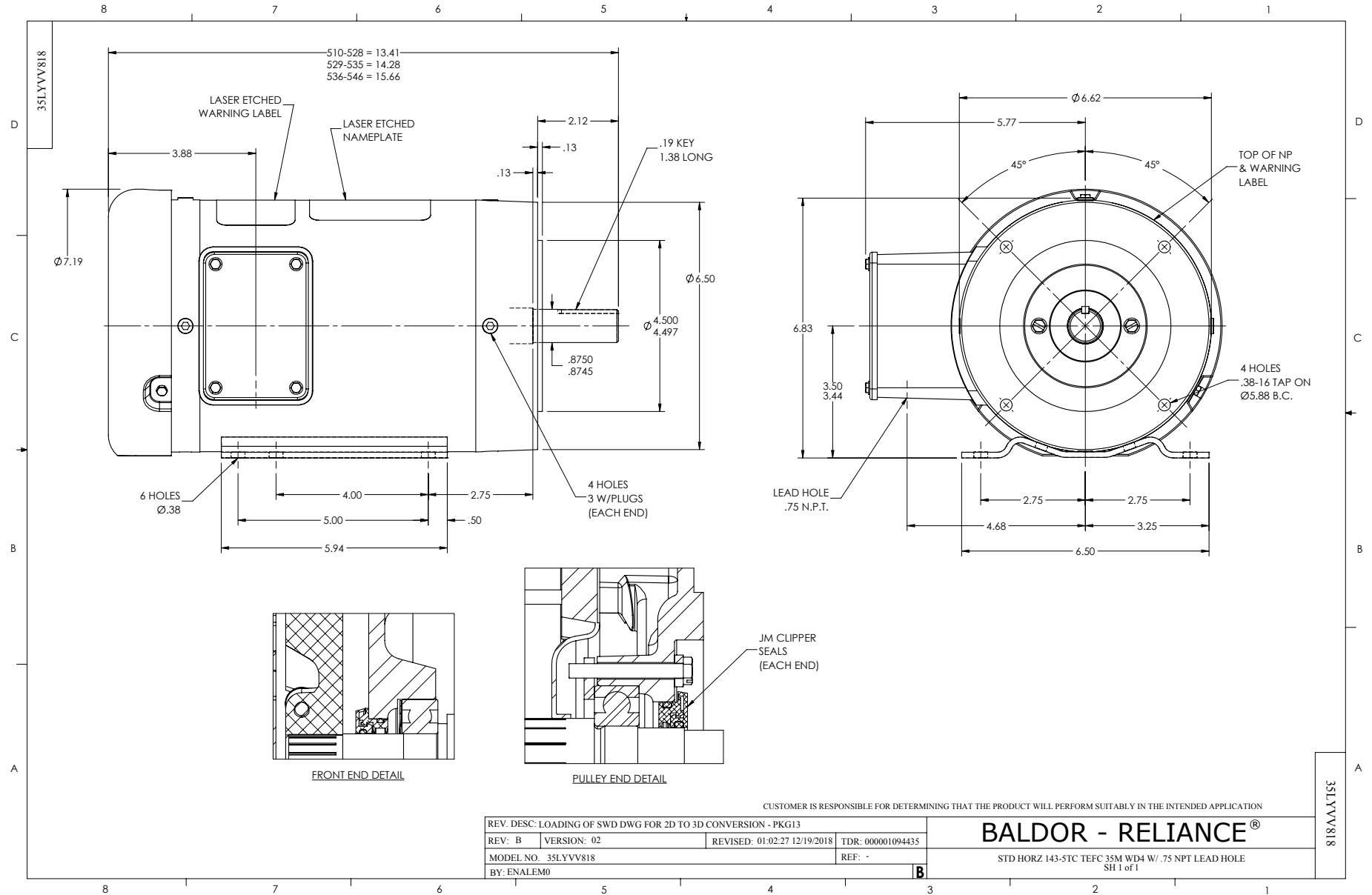
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1770 RPM 575 V 3522M

TORQUES (LB-FT): PO=13.4 PU=6.8 LR=8.3 LRA=10.9



4/16/2024 ACPERF, record # 99012



CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

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REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIRO
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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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