

# **ABB BALDOR RELIANCE III**

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## **Customer information packet**

VECP3581T

1HP, 1770RPM, 3PH, 60HZ, 143TC, 0522M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

**Specifications**

<b>Enclosure</b>	TEFC
<b>Frame</b>	143TC
<b>Frame Material</b>	Iron
<b>Frequency</b>	60.00 Hz
<b>Haz Area Class and Group</b>	CLI GP A,B,C,D
<b>Haz Area Division</b>	Division II
<b>Motor Letter Type</b>	Three Phase
<b>Output @ Frequency</b>	1.000 HP @ 60 HZ
<b>Phase</b>	3
<b>Synchronous Speed @ Frequency</b>	1800 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
<b>Agency Approvals</b>	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
<b>Ambient Temperature</b>	40 °C
<b>Auxiliary Box</b>	NO AUXILLARY BOX
<b>Auxiliary Box Lead Termination</b>	None
<b>Base Indicator</b>	No Mounting
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Blower</b>	None
<b>Constant Torque Speed Range</b>	1.2
<b>Current @ Voltage</b>	3.400 A @ 230.0 V 3.300 A @ 208.0 V 3.200 A @ 208.0 V 1.700 A @ 460.0 V
<b>Design Code</b>	B
<b>Drip Cover</b>	Drip Cover
<b>Duty Rating</b>	CONT

**Part Detail**

<b>Revision</b>	C
<b>Type</b>	AC
<b>Mech. spec.</b>	05F006
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	05WGX903
<b>Layout</b>	05LYF006
<b>Eff. date</b>	10-01-2025
<b>CD Diagram</b>	CD0005
<b>Poles</b>	04
<b>Leads</b>	9#18 Y
<b>Proprietary</b>	False
<b>Created date</b>	07-21-2022

<b>Efficiency @ 100% Load</b>	85.5 %
<b>Electrically Isolated Bearing</b>	Not Electrically Isolated
<b>Feedback Device</b>	NO FEEDBACK
<b>Front Shaft Indicator</b>	None
<b>Haz Area Temp Code</b>	T4
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	1.7 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	N
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Max Speed</b>	2700 rpm
<b>Motor Lead Quantity/Wire Size</b>	9 @ 18 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	0522M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	14.56 IN
<b>Power Factor</b>	69
<b>Product Family</b>	Chemical Processing (Not DC)
<b>Pulley End Bearing Type</b>	Ball
<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>	Shaft Slinger
<b>Speed</b>	1770 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line

<b>Thermal Device - Bearing</b>	<b>None</b>
<b>Thermal Device - Winding</b>	<b>None</b>
<b>Vibration Sensor Indicator</b>	<b>No Vibration Sensor</b>
<b>Winding Thermal 1</b>	<b>None</b>
<b>Winding Thermal 2</b>	<b>None</b>

**Nameplate**

<b>NP3258</b>									
<b>CAT.NO.</b>	VECP3581T								
<b>SPEC.</b>	05F006X903G1								
<b>HP</b>	1 TE								
<b>VOLTS</b>	208-230/460								
<b>AMP</b>	3.3-3.4/1.7								
<b>RPM</b>	1770								
<b>FRAME</b>	143TC	<b>HZ</b>	60	<b>PH</b>	3				
<b>SER.F.</b>	1.15	<b>CODE</b>	N	<b>DES</b>	B	<b>CL</b>	F		
<b>RATING</b>	40C AMB-CONT								
<b>SN</b>									
<b>DE</b>	6205	<b>ODE</b>	6205						
<b>NEMA-NOM-EFF</b>	85.5	<b>PF</b>	69						
<b>G.MIN.EFF</b>	82.5	<b>CC</b>	010A						
<b>T. CODE</b>	T4	<b>T=</b>	135						

**NP3261**

<b>SPEC.</b>	05F006X903G1		
<b>D.E. BRG.</b>	25BC02XP30X		
<b>O.D.E. BRG.</b>	25BC02XP30X		
<b>GREASE</b>	POLYREX EM		
<b>RPM MAX</b>	2700	<b>MAX. KVAR</b>	0.49
<b>BLANK</b>	SFA 3.6/1.8		
<b>INV. TYPE</b>	PWM		
<b>T=</b>	135		
<b>C HP FR</b>	60	<b>C HP TO</b>	90
<b>CT HZ FROM</b>	1.2	<b>CT HZ TO</b>	60
<b>VT HZ FROM</b>	0-	<b>VT HZ TO</b>	60
<b>HTR-VOLTS</b>		<b>HTR-AMPS</b>	
<b>HTR-WATTS</b>		<b>MAX. SPACE HEATER TEMP.</b>	

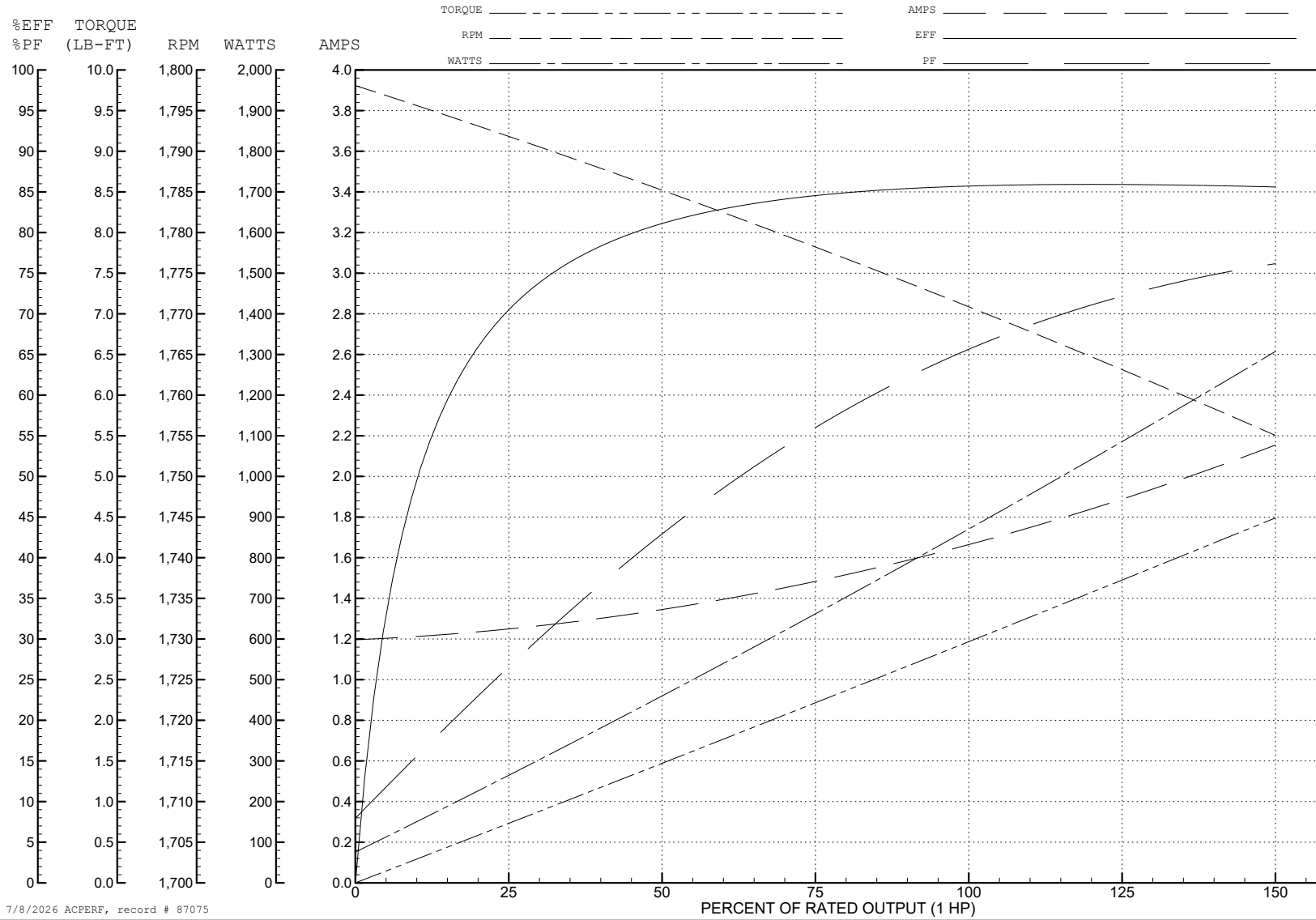
ABB Motors and Mechanical Inc.

WINDING # 05WGX903

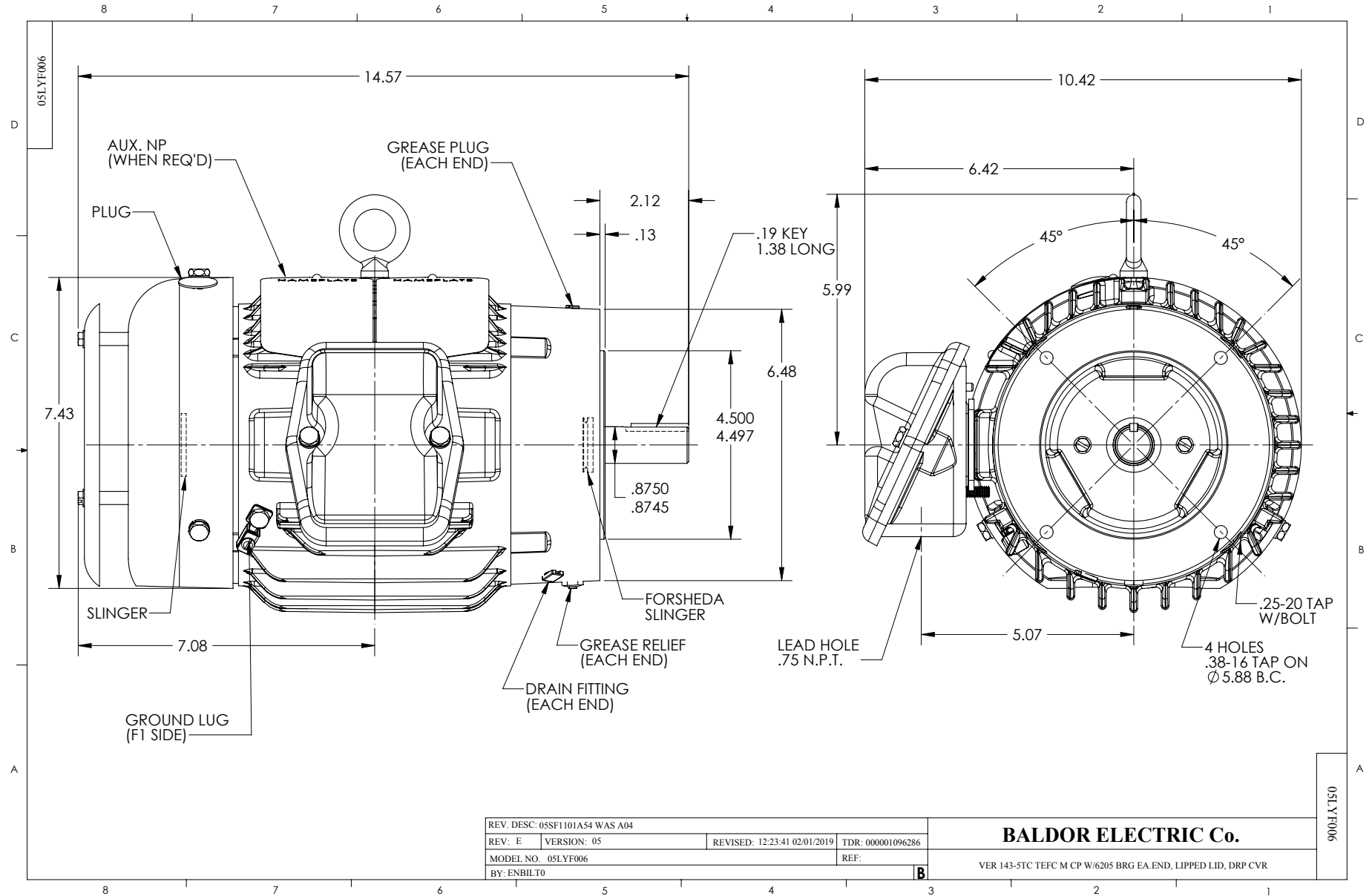
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1770 RPM 460 V 0522M

TORQUES (LB-FT): PO=15.85 PU=9.1 LR=10.45 LRA=15.67



7/8/2026 ACPERF, record # 87075



CD0005



LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS