

# ABB BALDOR RELIANCE III

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## Customer information packet

### ECP3580T

1HP, 3450RPM, 3PH, 60HZ, 143T, 0516M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

**Specifications**

<b>Enclosure</b>	TEFC
<b>Frame</b>	143T
<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>	3600 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	230.0 V @ 60 HZ 460.0 V @ 60 HZ
<b>Agency Approvals</b>	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
<b>Ambient Temperature</b>	40 °C
<b>Auxiliary Box</b>	NO AUXILLARY BOX
<b>Auxiliary Box Lead Termination</b>	None
<b>Base Indicator</b>	Rigid
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Blower</b>	None
<b>Constant Torque Speed Range</b>	6
<b>Current @ Voltage</b>	2.800 A @ 230.0 V 1.400 A @ 460.0 V
<b>Design Code</b>	B
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	84.0 %
<b>Electrically Isolated Bearing</b>	Not Electrically Isolated
<b>Enclosure Modification</b>	Severe Duty Features

**Part Detail**

<b>Revision</b>	AA
<b>Type</b>	AC
<b>Mech. spec.</b>	05F008
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	05WGW546
<b>Layout</b>	05LYF008
<b>Eff. date</b>	07-17-2023
<b>CD Diagram</b>	CD0005
<b>Poles</b>	02
<b>Leads</b>	9#18
<b>Proprietary</b>	False
<b>Created date</b>	02-24-2009

<b>Feedback Device</b>	NO FEEDBACK
<b>Front Face Code</b>	Standard
<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>	1.4 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	L
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Max Speed</b>	5400 rpm
<b>Motor Lead Exit</b>	Ko Box
<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>	0516M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	12.88 IN
<b>Power Factor</b>	82
<b>Product Family</b>	Super-E Chemical Processing
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<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 Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	Shaft Slinger
<b>Speed</b>	3450 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**

<b>NP3258</b>									
<b>CAT.NO.</b>	ECP3580T								
<b>SPEC.</b>	05F008W546G1								
<b>HP</b>	1 TE								
<b>VOLTS</b>	230/460								
<b>AMP</b>	2.8/1.4								
<b>RPM</b>	3450								
<b>FRAME</b>	143T	<b>HZ</b>	60	<b>PH</b>	3				
<b>SER.F.</b>	1.15	<b>CODE</b>	L	<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>	84	<b>PF</b>	82						
<b>G.MIN.EFF</b>	81.5	<b>CC</b>	010A						
<b>T. CODE</b>	T4	<b>T=</b>	135						

**NP3261**

<b>SPEC.</b>	05F008W546G1		
<b>D.E. BRG.</b>	25BC02XP30X		
<b>O.D.E. BRG.</b>	25BC02XP30X		
<b>GREASE</b>	POLYREX EM		
<b>RPM MAX</b>	5400	<b>MAX. KVAR</b>	0.2
<b>BLANK</b>			
<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>	6	<b>CT HZ TO</b>	60
<b>VT HZ FROM</b>	3	<b>VT HZ TO</b>	60
<b>HTR-VOLTS</b>		<b>HTR-AMPS</b>	
<b>HTR-WATTS</b>		<b>MAX. SPACE HEATER TEMP.</b>	

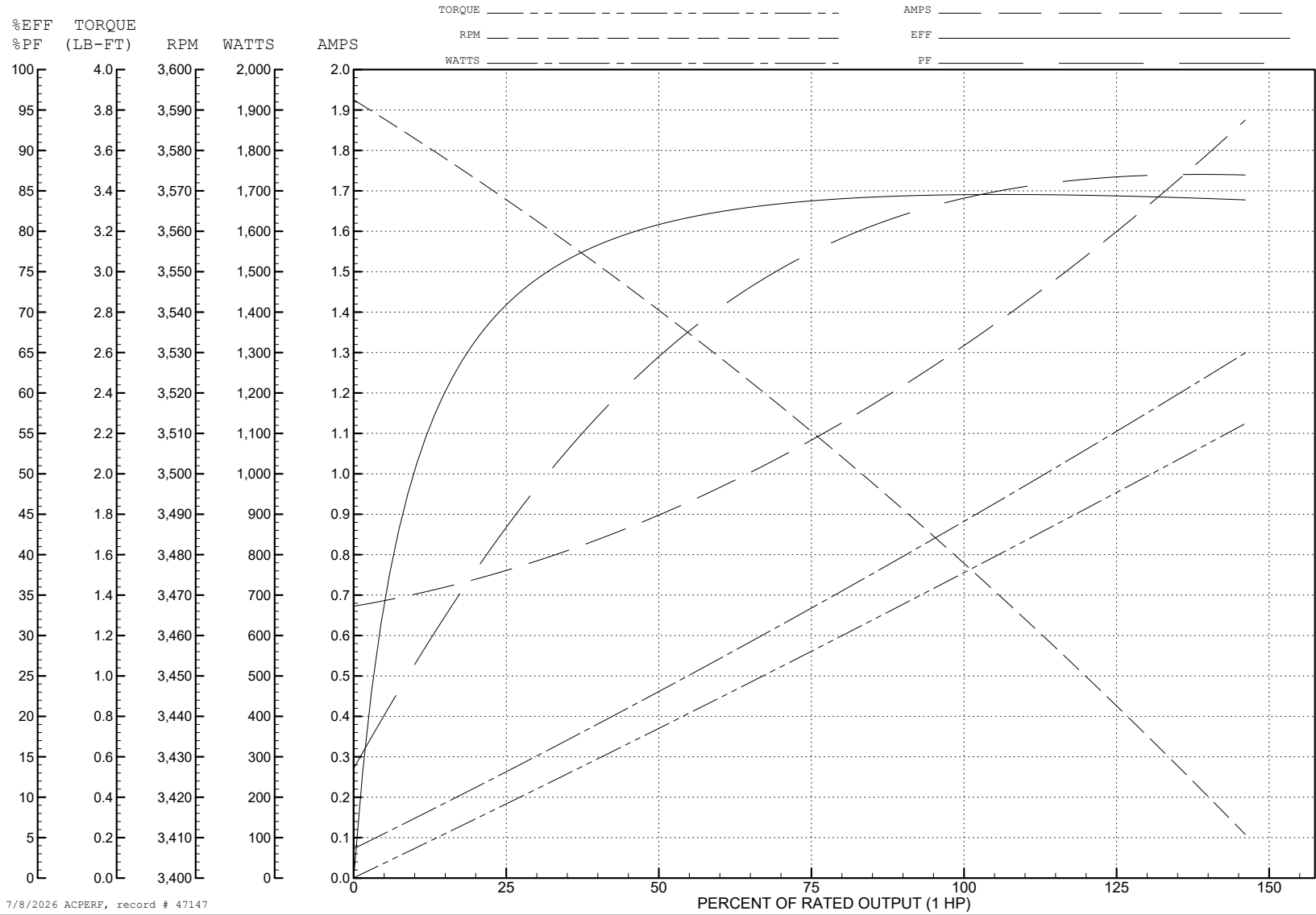
ABB Motors and Mechanical Inc.

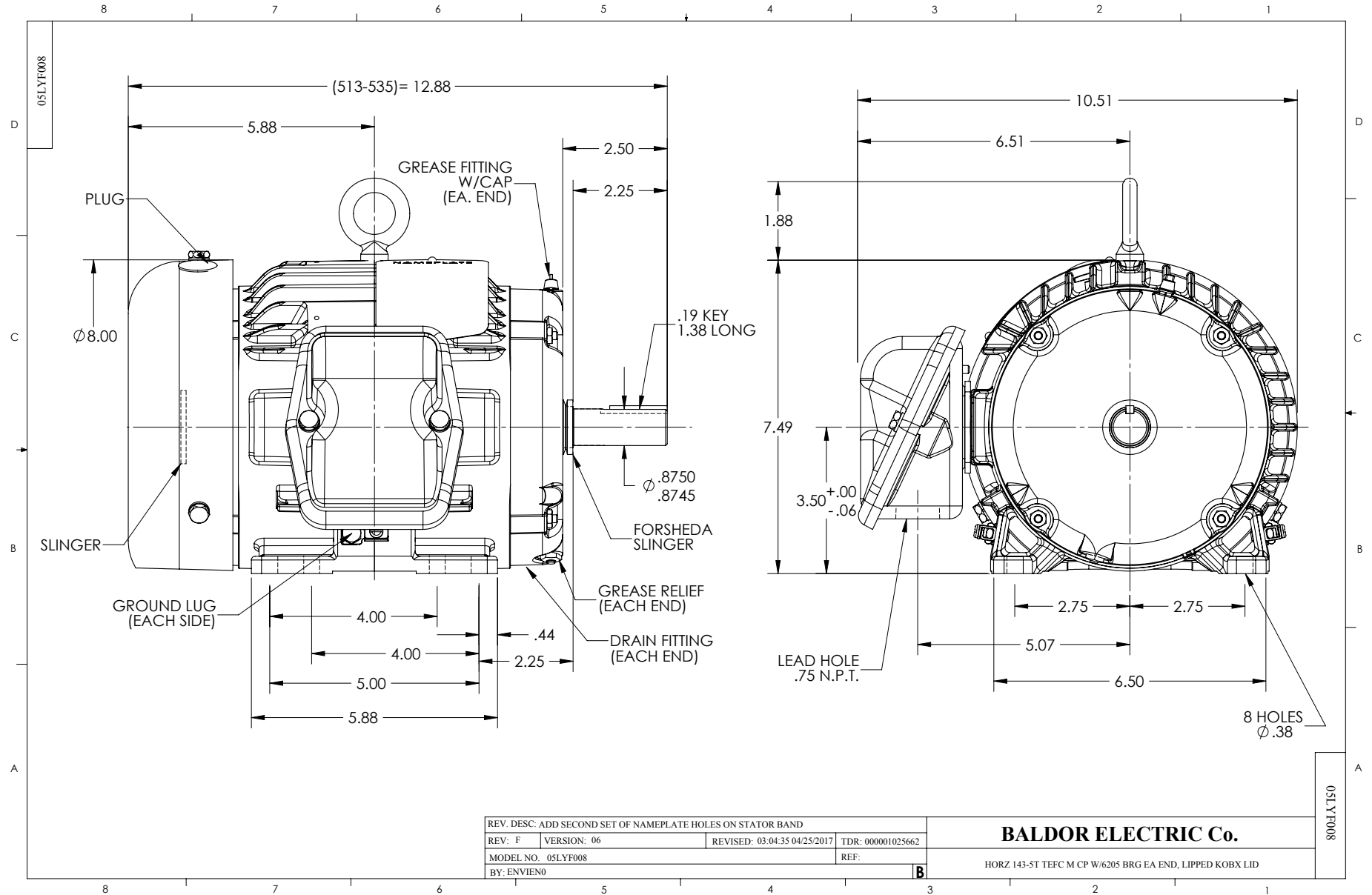
WINDING # 05WGW546

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 460 V 0516M

TORQUES (LB-FT): PO=6.5 PU=4.8 LR=5.7 LRA=12.1





CD0005

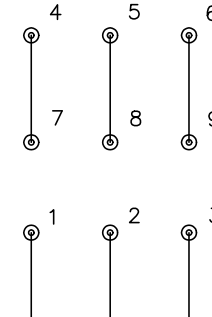


LOW VOLTAGE  
(2Y)



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

500000

FILE: AAA00005140

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS