

ABB BALDOR RELIANCE III

Customer information packet

ECR9054T

5HP, 1760RPM, 3PH, 60HZ, 184T, 0642M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM 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
Constant Torque Speed Range	6
Current @ Voltage	7.200 A @ 460.0 V 14.400 A @ 230.0 V 14.400 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features

Part Detail

Revision	A
Type	AC
Mech. spec.	06K520
Base	
Status	PRD/A
Elec. spec.	06WGX899
Layout	06LYK520
Eff. date	07-12-2023
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	03-28-2023

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.2 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.93 IN
Power Factor	73
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 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

NP3294											
CAT NO	ECR9054T										
SPEC.	06K520X899G1					ENCL	TEFC				
FRAME	184T	HP		5							
VOLTS	230/460										
FLA	13.8/6.9			I.P.		55					
RPM	1760	RPM MAX			2700						
HZ	60	PH	3	CLASS		F					
SER.F.	1.25	DES	A	CC	010A						
NEMA-NOM-EFF	89.5										
RATING	40C AMB-CONT										
DE BRG	6306	ODE BRG			6206						
GREASE	POLYREX EM										
INV.TYPE	PWM	C HP FR		60	C HP TO		90				
CT HZ FROM	6	CT HZ TO		60	VT HZ FROM		6	VT HZ TO		60	
SER.NO	SFA 17.6/8.8										

AC Induction Motor Performance Data

Record # 100278

Typical performance - not guaranteed values

Winding: 06WGX899-R001			Type: 0642M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5	Full Load Torque		15.1 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		14.4/7.2	Breakdown Torque		58.8 LB-FT	
R.P.M.		1760	Pull-up Torque		32.2 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		38.3 LB-FT	
NEMA Design Code		A KVA Code	Starting Current		56.2 A	
Service Factor (S.F.)		1.25	No-load Current		3.84 A	
NEMA Nom. Eff.		89.5 Power Factor	Line-line Res. @ 25°C		2.1019 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		55°C	
S.F. Amps		17.6/8.8	Temp. Rise @ S.F. Load		75°C	
			Locked-rotor Power Factor		41.5	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	56	68	76	80	82	80
Efficiency	83.3	88.9	90.1	90	89.2	88	89.2
Speed	1789.3	1779.8	1769.7	1758.7	1747.4	1734.3	1747
Line amperes	4.11	4.79	5.77	6.94	8.25	9.73	8.25

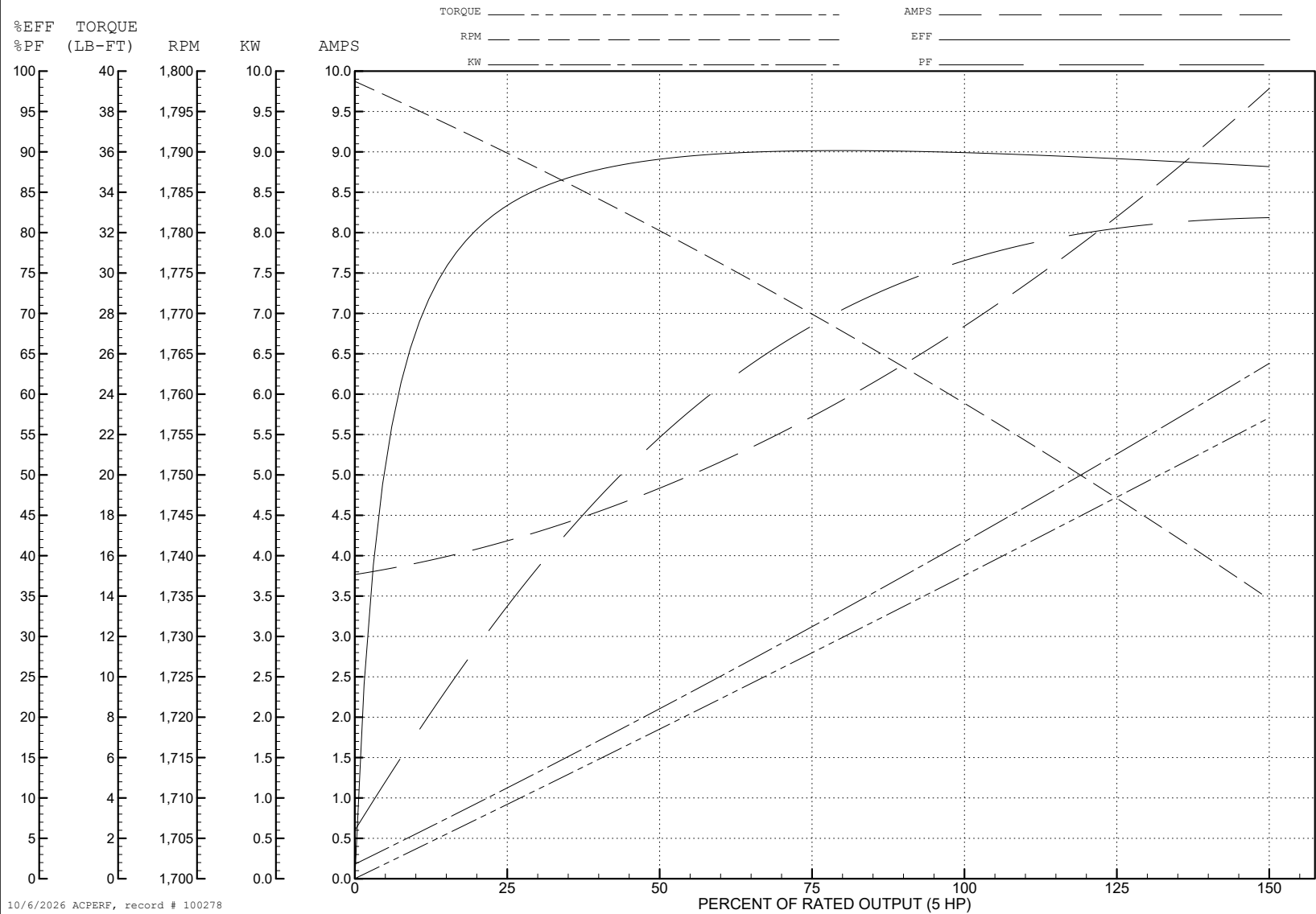
ABB Motors and Mechanical Inc.

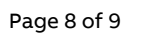
WINDING # 06WGX899

Typical performance - not guaranteed values.

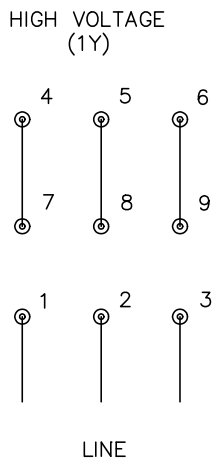
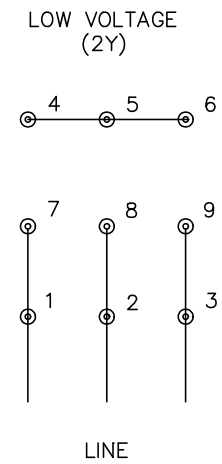
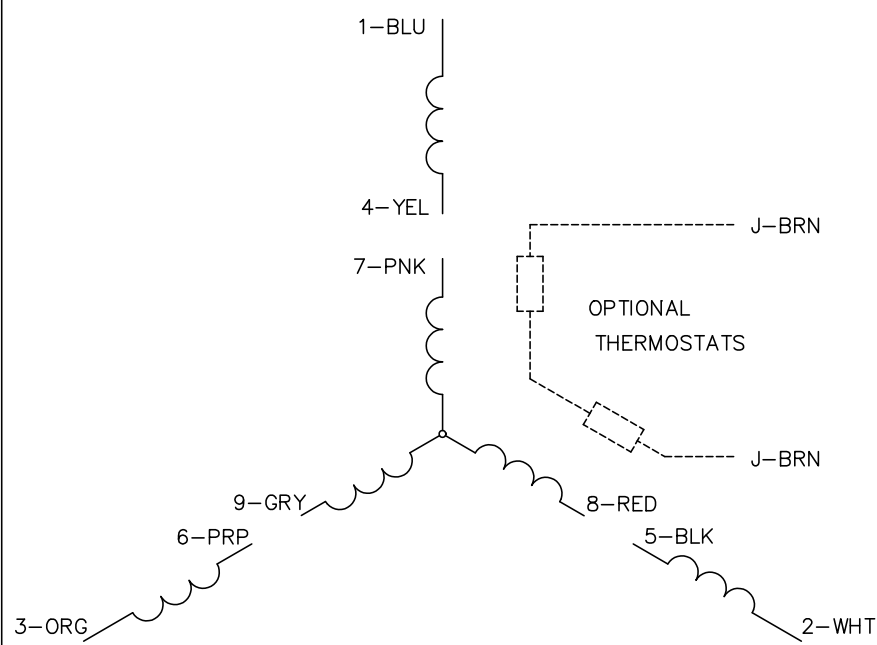
5 HP 3 PH 60 HZ 1760 RPM 460 V 0642M

TORQUES (LB-FT) : PO=58.8 PU=32.2 LR=38.3 LRA=56.2





CD0005



- 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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005