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# Customer information packet

## ERHM3162TA

5HP, 3450RPM, 3PH, 60HZ, 145TY, 3540M, OPEN, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	OPEN
Frame	145TY
Frame Material	Steel
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CSA CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	6.100 A @ 460.0 V 13.000 A @ 208.0 V 12.200 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None

## Part detail

Revision	Q
Type	AC
Mech. spec.	35J829
Base	
Status	PRD/A
Elec. spec.	35WGM541
Layout	35LYJ829
Eff. date	07-25-2024
CD Diagram	CD0007
Poles	02
Leads	12#18
Proprietary	False
Created date	08-05-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	6.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3540M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.02 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use Eve-Not Valid
Vibration Sensor Indicator	No Vibration Sensor

<b>Winding Thermal 1</b>	<b>Automatic Thermal Overload</b>
<b>Winding Thermal 1 Location</b>	<b>SB</b>
<b>Winding Thermal 2</b>	<b>None</b>

**Nameplate**

<b>NP2601L</b>									
<b>CAT.NO.</b>	ERHM3162TA								
<b>SPEC.</b>	35J829M541G1								
<b>HP</b>	5								
<b>VOLTS</b>	230/460								
<b>AMP</b>	12.2/6.1								
<b>RPM</b>	3450								
<b>FRAME</b>	143TY		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	L	<b>DES</b>	A	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	86.5	<b>PF</b>	89						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A								
<b>DE</b>	6205		<b>ODE</b>	6203					
<b>ENCL</b>	OPEN	<b>SN</b>							

## Parts list

Part number	Description	Quantity
SA200895	SA 35J829M541G1	1.000 ea
RA188205	RA 35J829M541G1	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
35EP3202A01	STD OPEN FR EP - RESILIENT MTD	1.000 ea
RM1000A02	CUSHION RING, MODEL 35 SAME AS A07	1.000 ea
HA6005A01	CLAMP, BASE	2.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	1.000 ea
LD5000A01	LEAD ASSY, ML1400DF14 7" RING TRM EA END	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	2.000 ea
HW1003A10	WASHER, #10 EX TH LK, ZN X	2.000 ea
SP1003A01	TERM. BOARD, MODE 35 SW X H-23655	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP1209A01	PU ENDPLATE, MACH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
RM1000A02	CUSHION RING, MODEL 35 SAME AS A07	1.000 ea
HA6005A01	CLAMP, BASE	2.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	1.000 ea
35CB4500SP	TERMINAL BOX LID STAMPED	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.017 ga
HA3100A26	THRUBOLT 10-32 X 11.500	4.000 ea
35BA4002J01	RESILIENT BASE, STAMPED	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0007	CONNECTION LABEL	1.000 ea
NP2601L	ALUM SUPER-E,UL-EEV,NEMA PREM,CC,THERMAL	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

**AC Induction Motor Performance Data**

Record # 53123

Typical performance - not guaranteed values

<b>Winding:</b> 35WGM541-R003		<b>Type:</b> 3540M		<b>Enclosure:</b> OPEN	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	5	<b>Full Load Torque</b>	7.65 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	12.2/6.1	<b>Breakdown Torque</b>	34.5 LB-FT		
<b>R.P.M.</b>	3450	<b>Pull-up Torque</b>	20.8 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	32.1 LB-FT	
<b>NEMA Design Code</b>	A <b>KVA Code</b>	L	<b>Starting Current</b>	60.4 A	
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	2.21 A		
<b>NEMA Nom. Eff.</b>	86.5 <b>Power Factor</b>	89	<b>Line-line Res. @ 25°C</b>	2.93 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	56°C	
<b>S.F. Amps</b>			<b>Temp. Rise @ S.F. Load</b>	68°C	
			<b>Locked-rotor Power Factor</b>	48.2	
			<b>Rotor inertia</b>	0.111 LB-FT <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 5 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>	54	76	85	89	91	92	90
<b>Efficiency</b>	83.8	88.1	87.9	86.9	84.9	82.6	85.7
<b>Speed</b>	3564	3530	3493	3452	3406	3353	3424
<b>Line amperes</b>	2.62	3.53	4.75	6.1	7.57	9.29	6.98

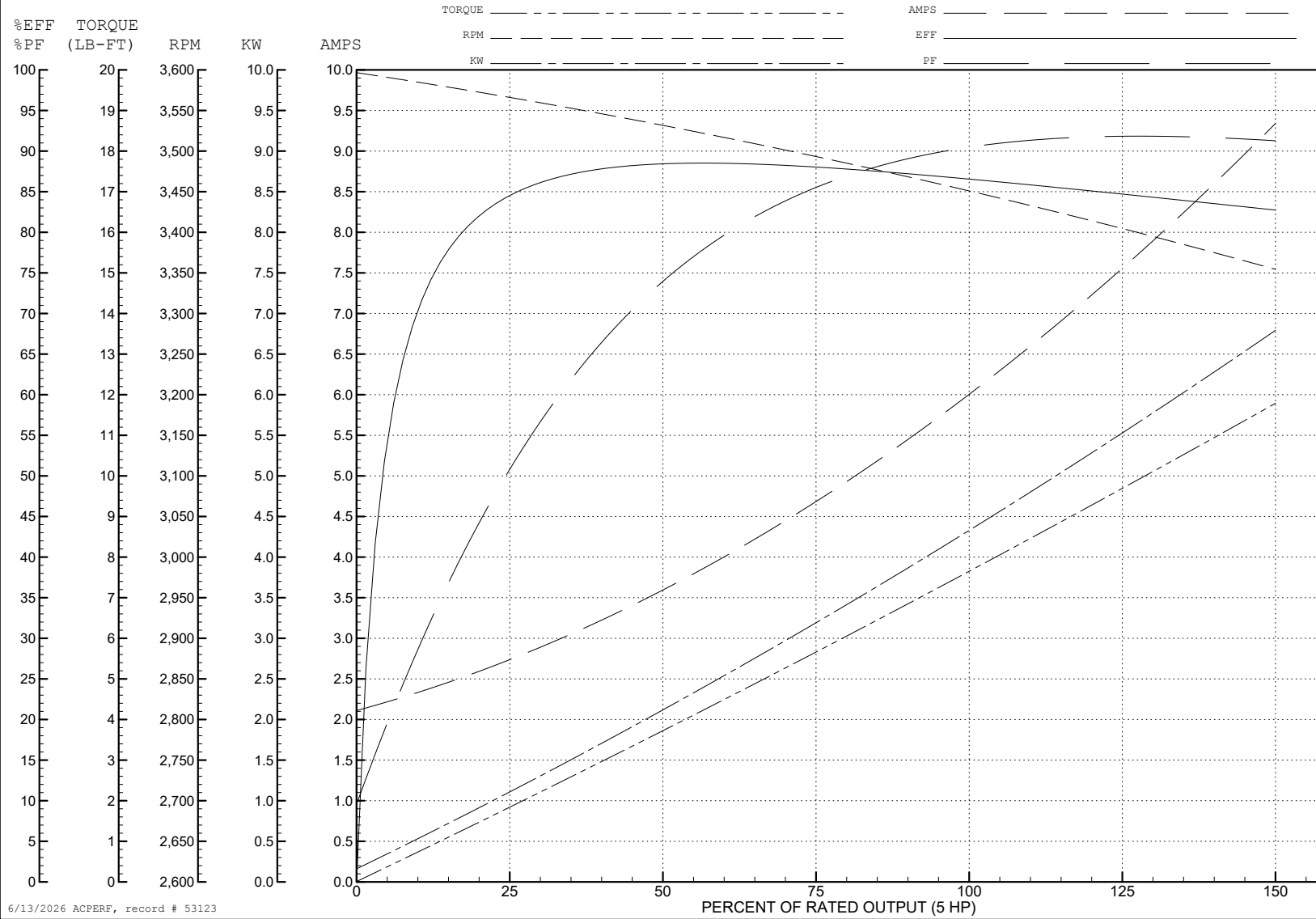
ABB Motors and Mechanical Inc.

WINDING # 35WGM541

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3450 RPM 460 V 3540M

TORQUES (LB-FT): PO=34.5 PU=20.8 LR=32.1 LRA=60.4



6/13/2026 ACPERF, record # 53123