

ABB BALDOR RELIANCE III

Customer information packet

M1706T

2/1HP, 1725/850RPM, 3PH, 60HZ, 184T, 3628M

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184T
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	2.000 HP @ 60 HZ 1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CSA
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
Current @ Voltage	2.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.6 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AD
Type	AC
Mech. spec.	36A001
Base	
Status	PRD/A
Elec. spec.	36WG2848
Layout	36LYA001
Eff. date	05-20-2025
CD Diagram	CD0011
Poles	04/08
Leads	6#16
Proprietary	False
Created date	01-01-0001

KVA Code	D
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3628M
Mounting Arrangement	F1
Number of Poles	4 8
Overall Length	16.54 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 rpm 850 rpm
Speed Code	2S-1W-CT
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

NP1256L									
CAT.NO.	M1706T								
SPEC.	36A01-2848								
HP	2/1								
VOLTS	460								
AMP	2.8/2.6								
RPM	1725/850								
FRAME	184T		HZ	60			PH	3	
SER.F.	1.15	CODE	D	DES	B	CLASS	F		
NEMA-NOM-EFF		PF							
RATING	40C AMB-CONT								
CC									
DE	6206		ODE	6205					
ENCL	TEFC	SN							

Parts List

Part number	Description	Quantity
SA033859	SA 36A01-2848	1.000 ea
RA029887	RA 36A01-2848	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP3104A01	FREP MACH W/GRSR, RAISED FH PADS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3100A01SP	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
36FH4009A102	IEC FH GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
36FN3000A01SP	EXFN, PLASTIC, 7.00 OD, .912 ID	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.022 ga
HA3101A25	THRUBOLT 1/4-20 X 11.000 OHIO ROD	4.000 ea
LC0032	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

FE-0000001

ZRTG FE ASSEMBLY

1.000 ea

Accessories

Part number	Description	Multiplier
36-3301	C FACE KIT	A8
36EP1304A62SP	FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS	A8

AC Induction Motor Performance Data

Record # 10540

Typical performance - not guaranteed values

Winding: 36WG2848-R005		Type: 3628M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Speed Connection	
Rated Output (HP)	2/1	Full Load Torque	6.2 LB-FT
Volts	460	Start Configuration	direct on line
Full Load Amps	2.8/2.6	Breakdown Torque	18 LB-FT
R.P.M.	1725/850	Pull-up Torque	14 LB-FT
Hz	60 Phase	Locked-rotor Torque	14 LB-FT
NEMA Design Code	B KVA Code	Starting Current	12.5 A
Service Factor (S.F.)	1.15	No-load Current	0.85 A
NEMA Nom. Eff.	0 Power Factor	Line-line Res. @ 25°C	13 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	59	76	82	84	85	90	85
Efficiency	78	81	79	76	71	70.6	74
Speed	1760	1722	1680	1628	1571	1560	1606
Line amperes	1.15	1.6	2.15	2.8	3.5	4.44	3.27

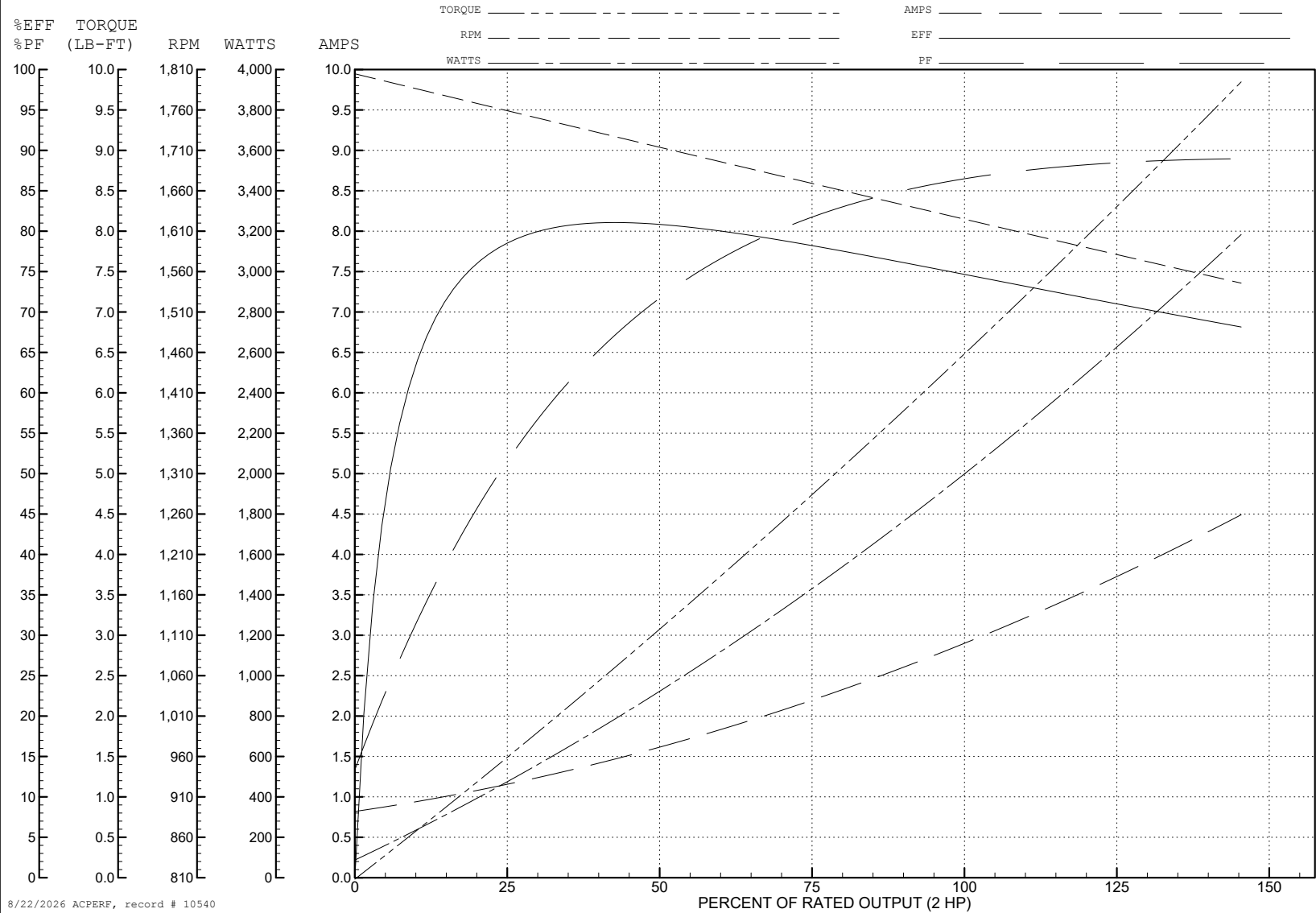
ABB Motors and Mechanical Inc.

WINDING # 36WG2848

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1628 RPM 460 V 3628M

TORQUES (LB-FT): PO=18 PU=14 LR=14 LRA=12.5



AC Induction Motor Performance Data

Record # 10541

Typical performance - not guaranteed values

Winding: 36WG2848-R005				Type: 3628M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: Low Speed Connection			
Rated Output (HP)		2/1		Full Load Torque		6.1 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		2.8/2.6		Breakdown Torque		21 LB-FT	
R.P.M.		1725/850		Pull-up Torque		17 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		18 LB-FT	
NEMA Design Code		B	KVA Code	D	Starting Current		10.5 A
Service Factor (S.F.)		1.15		No-load Current		2.35 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		17.2 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load			

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	24	33	43	50	57	62	54
Efficiency	44	59	65	67	68	67	67.4
Speed	886	874	860	845	830	814	838
Line amperes	2.4	2.45	2.55	2.7	2.95	3.2	2.83

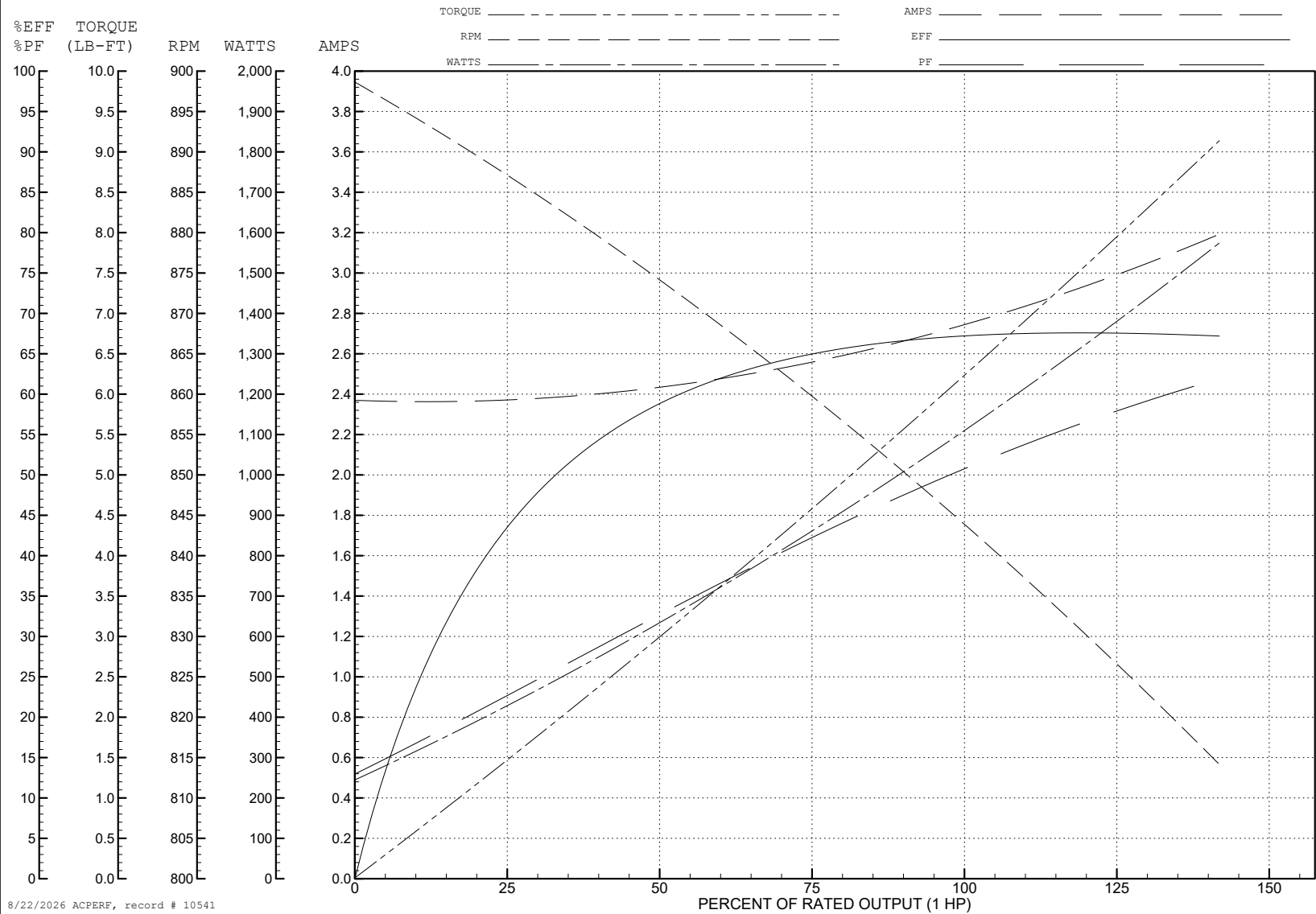
ABB Motors and Mechanical Inc.

WINDING # 36WG2848

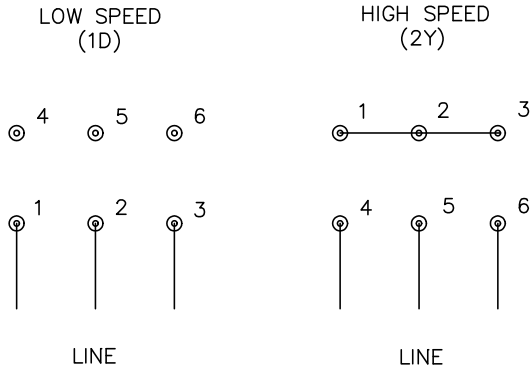
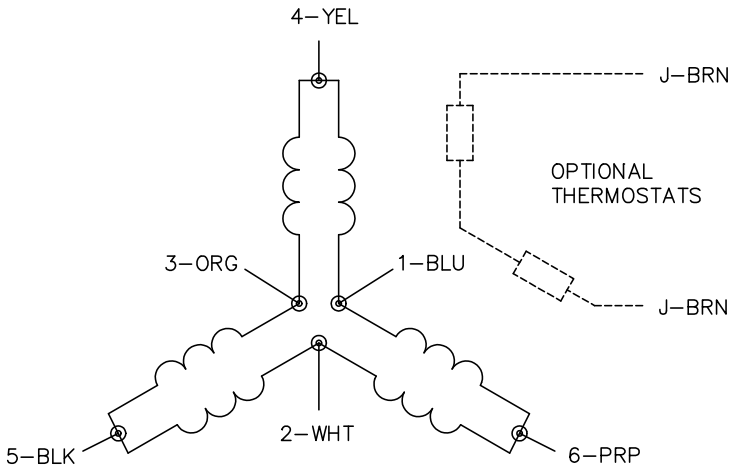
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 845 RPM 460 V 3628M

TORQUES (LB-FT): PO=21 PU=17 LR=18 LRA=10.5



CD0011



- 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: F	BY: JLP	REVISED: 01/21/99 5:04	TDR: 0171435
110000		FILE: DWG\142.wg	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, 2-SPEED 1-WINDING CONSTANT TORQUE

CD0011