

ABB BALDOR RELIANCE III

Customer information packet

M1707T

3/1.5HP, 1725/850RPM, 3PH, 60HZ, 184T, 3640M

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	3.000 HP @ 60 HZ 1.500 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	4.200 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	4.2 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AC
Type	AC
Mech. spec.	36A001
Base	
Status	PRD/A
Elec. spec.	36WGW675
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	K
Lifting Lugs	Standard 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	3640M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	18.04 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.	M1707T								
SPEC.	36A01W675								
HP	3/1.5								
VOLTS	460								
AMP	4.2/4.4								
RPM	1725/850								
FRAME	184T		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	-	CLASS	F		
NEMA-NOM-EFF		PF							
RATING	40C AMB-CONT								
CC									
DE	6206		ODE	6205					
ENCL	TEFC	SN							

Parts List

Part number	Description	Quantity
SA033901	SA 36A01W675	1.000 ea
RA029929	RA 36A01W675	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
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 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
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 ea
LC0032	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	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 # 10816

Typical performance - not guaranteed values

Winding: 36GW675-R001			Type: 3640M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Speed Connection			
Rated Output (HP)		3/1.5		Full Load Torque		9.1 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		4.2/4.4		Breakdown Torque		32 LB-FT	
R.P.M.		1725/850		Pull-up Torque		20 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		31.5 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		32.7 A
Service Factor (S.F.)		1.15		No-load Current		1.8 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		6.13 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		70°C	
S.F. Amps				Temp. Rise @ S.F. Load		83°C	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	68	78	84	87	89	86
Efficiency	74.1	81.5	82.9	82.3	80.9	78.5	81.5
Speed	1787	1772	1759	1742	1725	1702	1732
Line amperes	2.1	2.7	3.3	4.2	5	6	4.68

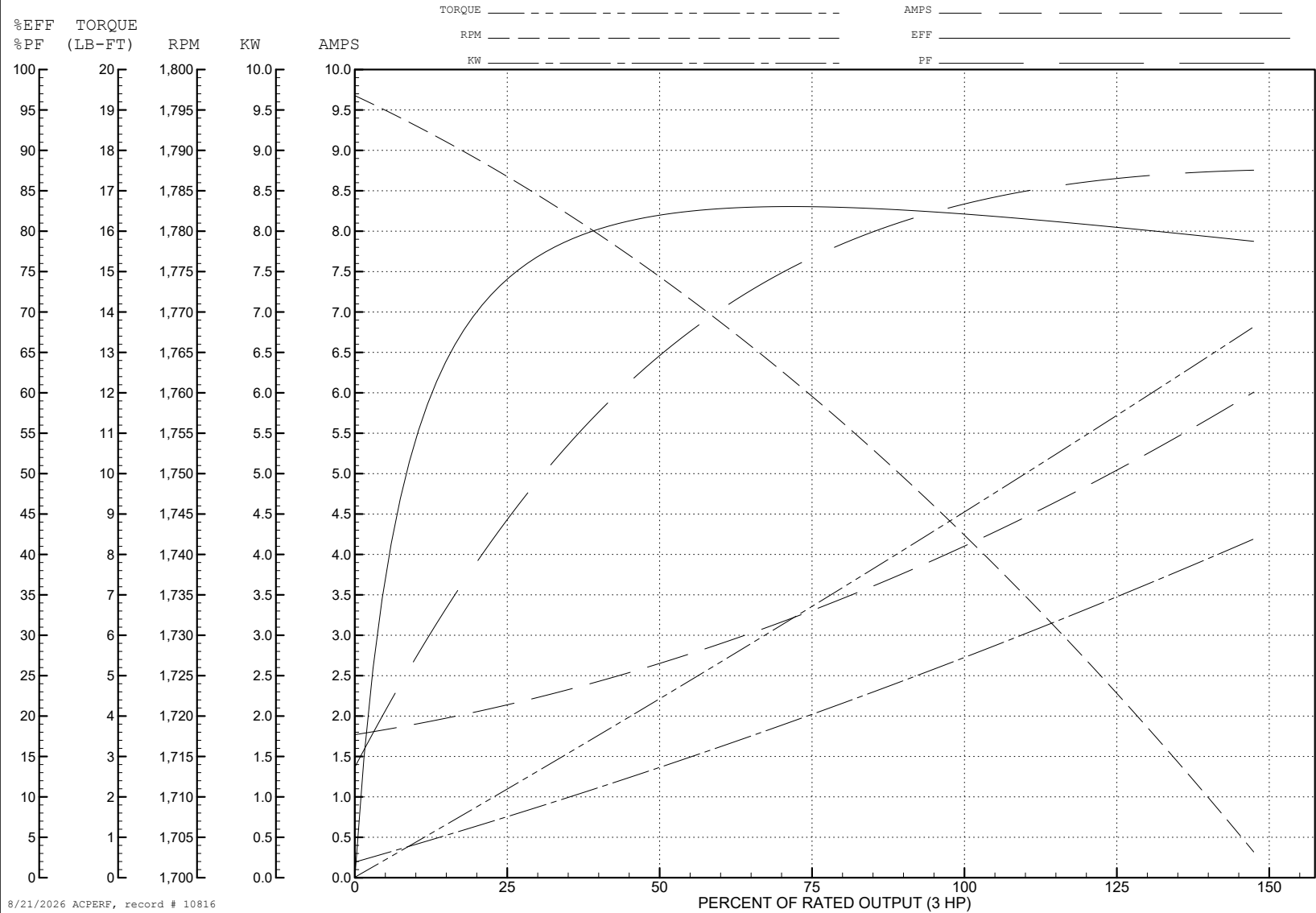
ABB Motors and Mechanical Inc.

WINDING # 36WGW675

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1742 RPM 460 V 3640M

TORQUES (LB-FT): PO=32 PU=20 LR=31.5 LRA=32.7



AC Induction Motor Performance Data

Record # 10817

Typical performance - not guaranteed values

Winding: 36WGW675-R001			Type: 3640M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Low Speed Connection			
Rated Output (HP)		3/1.5	Full Load Torque		9.1 LB-FT	
Volts		460	Start Configuration		direct on line	
Full Load Amps		4.2/4.4	Breakdown Torque		36 LB-FT	
R.P.M.		1725/850	Pull-up Torque		29 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		31.1 LB-FT	
NEMA Design Code		B	KVA Code		K	
Service Factor (S.F.)		1.15	Starting Current		19.1 A	
NEMA Nom. Eff.		0	Power Factor		0	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		89°C	
S.F. Amps			Temp. Rise @ S.F. Load		98°C	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	22	33	42	51	57	63	55
Efficiency	48.5	64.2	70.2	72.8	73.6	73.3	73.3
Speed	892	883	876	866	856	845	860
Line amperes	3.8	3.9	4.2	4.4	4.7	5.2	4.6

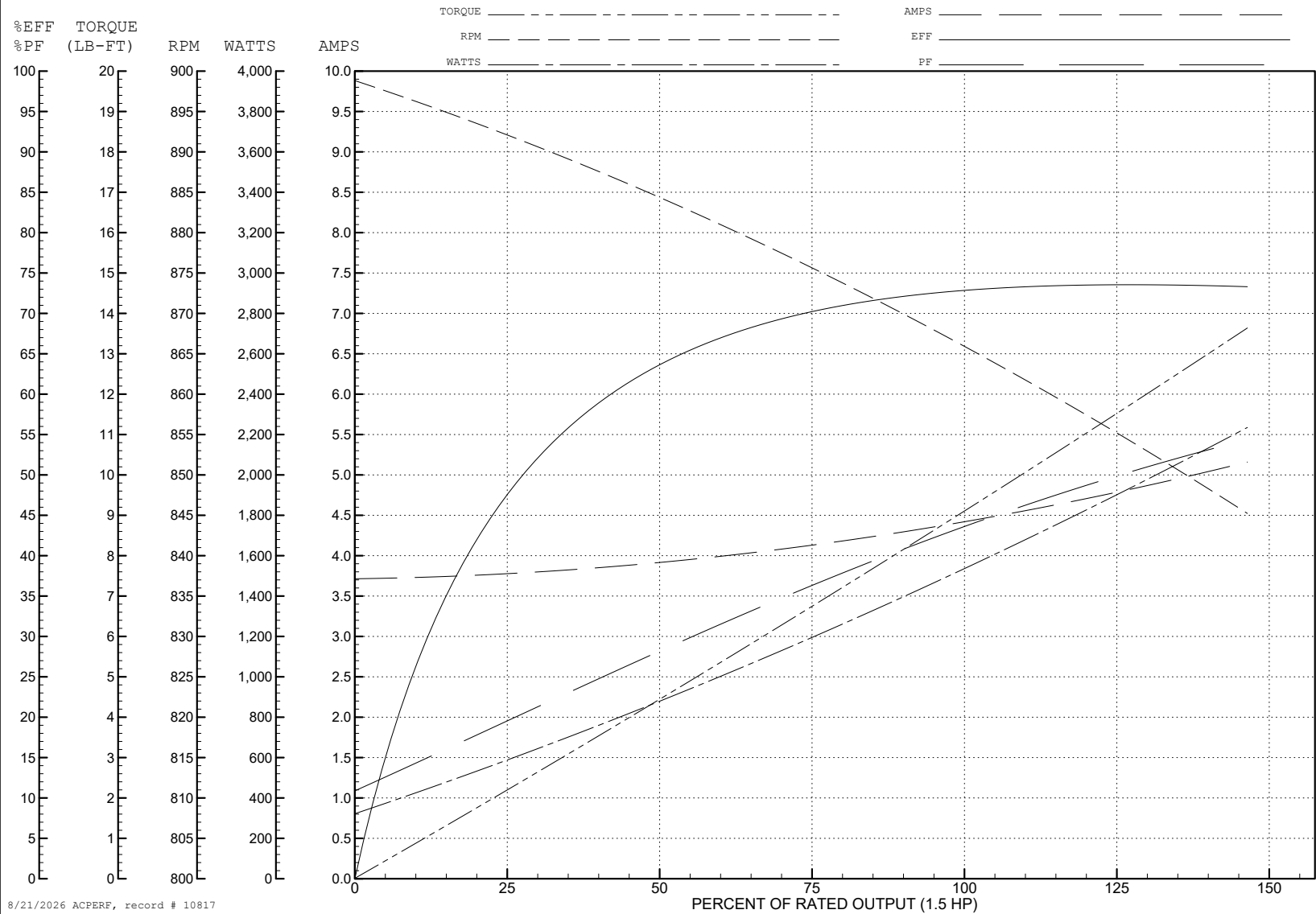
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WINDING # 36WG675

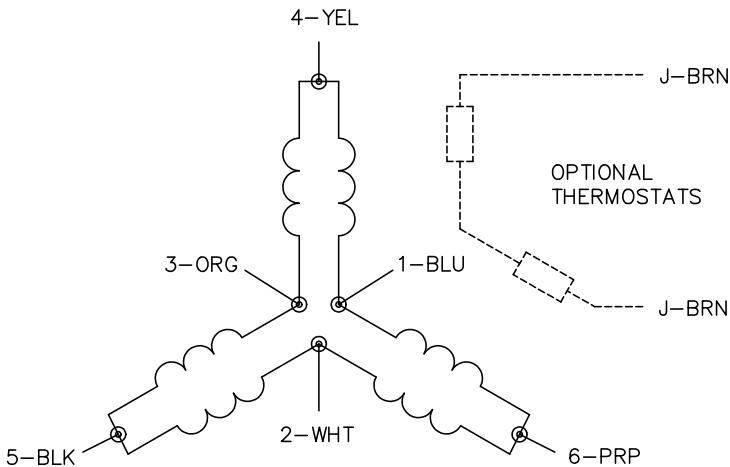
Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 866 RPM 460 V 3640M

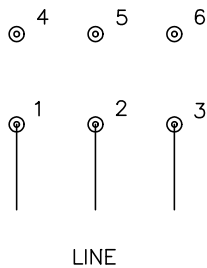
TORQUES (LB-FT): PO=36 PU=29 LR=31.1 LRA=19.1



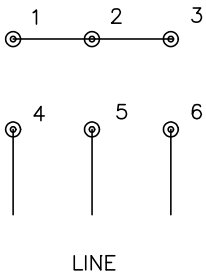
CD0011



LOW SPEED
(1D)



HIGH SPEED
(2Y)



- 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