

ABB BALDOR RELIANCE III

Customer information packet

EWDM3709T

7.5HP, 3500RPM, 3PH, 60HZ, 213T, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213T
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	7.500 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	CSA 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
Current @ Voltage	18.000 A @ 230.0 V 9.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	9.0 a

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGY751
Layout	37LYE572
Eff. date	10-21-2025
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	12-05-2019

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3738M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.89 IN
Power Factor	88
Product Family	Wash Down
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3500 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

NP1669L									
CAT.NO.	EWDM3709T								
SPEC.	37-0000-0180								
HP	7.5								
VOLTS	230/460								
AMP	18/9								
RPM	3500								
FRAME	213T		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	A	CLASS	F		
NEMA-NOM-EFF	89.5	PF	88						
RATING	40C AMB-CONT								
CC	010A								
DE	6307		ODE	6206					
ENCL	TEFC	SN							
BLANK	20:1 CT, 20:1 VT,1.00SF								

Parts List

Part number	Description	Quantity
SA377405	SA 37-0000-0180	1.000 ea
RA367311	RA 37-0000-0180	1.000 ea
LB1164	LABEL,WARNING AND DRAIN	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1669L	SS WD SUPER-E UL PREM REV MTG	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
HA3104S14	THRUBOLT 12.125LG SS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
07FH4011	WASHDOWN IEC FH W/PRIMED	1.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 ea
36FN3000C02SP	EXFN, PLASTIC, 5.25 OD, 1.175 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
37EP3101A94MW	FRONT TEFC L&M 206 BRG W/O GRSR (WHITE)	1.000 ea
HA1005A02	SLINGER, OD 2.00, ID 1.14, 206 BRG,	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
HW4032A01	BLACK DRAIN PLUG FOR WASH DOWN MOTORS	3.000 ea
37EP3100A20MW	FRONT ENDPLATE, MACHINED W/WHITE EPOXY	1.000 ea
HW4600B31SP	V-RING SLINGER 1.438 X 1.758 X .24 VITON	1.000 ea
HW4600H13	SEAL 1.375 X 2.125 X 0.313 SINGLE LIP DB	2.000 ea
HA5027A01	HA4066A01 T-DRAIN X2 BAGGED	1.000 ea
HW4032A01	BLACK DRAIN PLUG FOR WASH DOWN MOTORS	3.000 ea
37CB3005A04W	CASTING W/.75 NPT@6(MACH WHITE)	1.000 ea
37GS1025	37 MOLDED GASKET W/LIP, LEAD SEAL	1.000 ea
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37CB4512	CONDUIT BOX LID FOR WASHDOWN 37 FRAME	1.000 ea
37GS1008A02	37 GS FOR CB LID - WHITE NEOPRENE	1.000 ea
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 ea

MG1025W01	WILKOFAST, 781.01, SIGNAL WHITE #9003	0.022 ga
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
HW2502F21	#303 SS,SQ KEY 5/16 X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MG1025Z02	ACTIVATOR WILKOFAST 060.02HF 55 GALLON	0.022 ga
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 85668

Typical performance - not guaranteed values

Winding: 35WGM530-R023			Type: 3516M		Enclosure: TEFC		
Nameplate Data				380 V, 50 Hz: Single Voltage Motor			
Rated Output (HP)		.33	Full Load Torque		1.17 LB-FT		
Volts		380	Start Configuration		direct on line		
Full Load Amps		.7	Breakdown Torque		6.31 LB-FT		
R.P.M.		1460	Pull-up Torque		3.19 LB-FT		
Hz	50	Phase	3	Locked-rotor Torque		3.94 LB-FT	
NEMA Design Code		B	KVA Code		M		
Service Factor (S.F.)		1.15	Starting Current		5.56 A		
NEMA Nom. Eff.		78.5	Power Factor		68		
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load			
				Locked-rotor Power Factor		66	
				Rotor inertia			0.0946 lb-ft ²

Load Characteristics 380 V, 50 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	44	57	67	74	79	71
Efficiency	66.9	78.3	81.5	82.7	82.3	81.9	82.5
Speed	1493	1485	1477	1468	1459	1449	1463
Line amperes	0.497	0.542	0.598	0.666	0.76	0.86	0.722

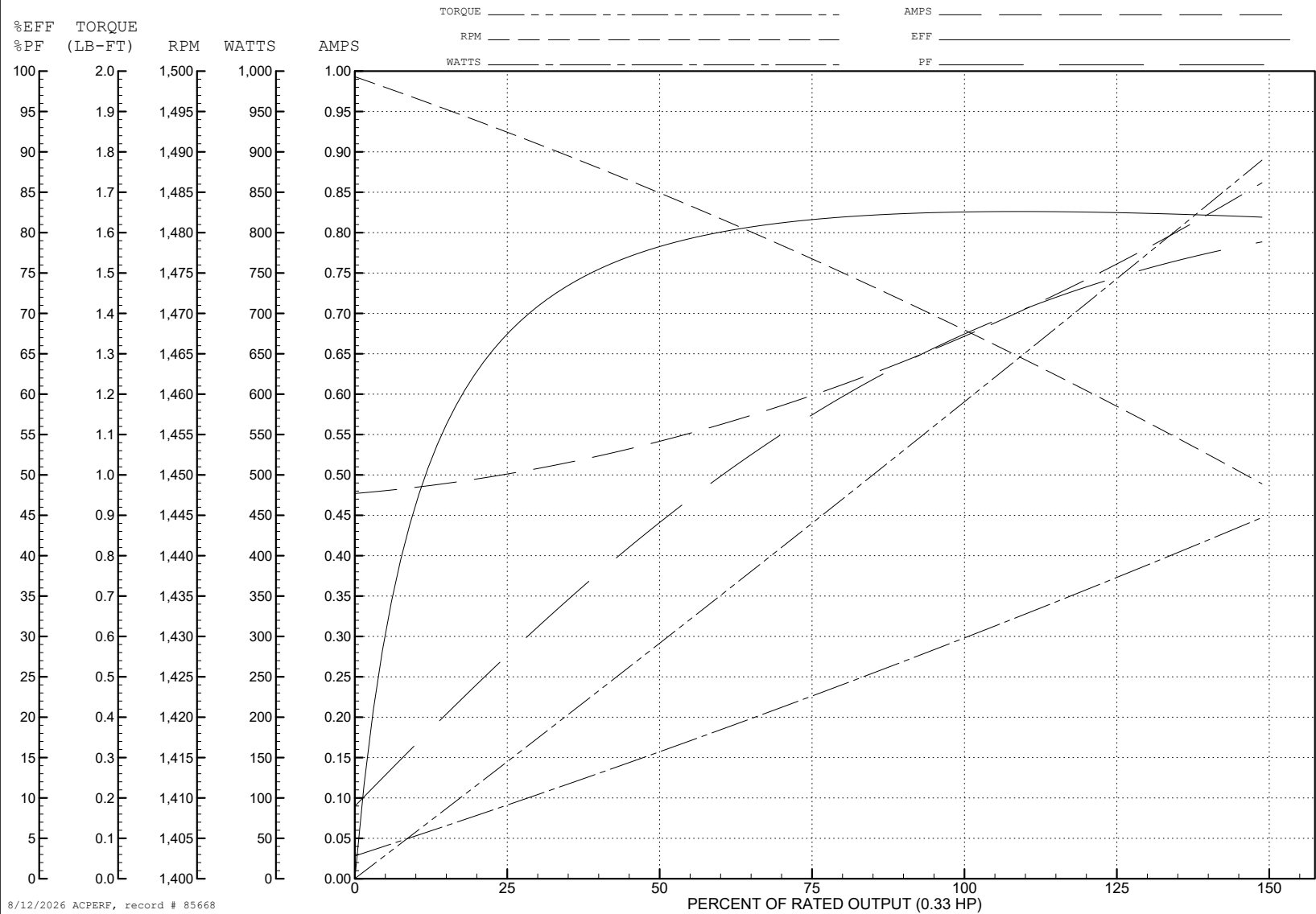
ABB Motors and Mechanical Inc.

WINDING # 35WGM530

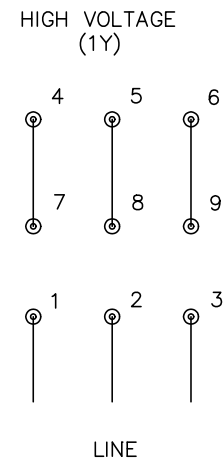
Typical performance - not guaranteed values.

0.33 HP 3 PH 50 HZ 1460 RPM 380 V 3516M

TORQUES (LB-FT) : PO=6.31 PU=3.19 LR=3.94 LRA=5.56



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