

ABB BALDOR RELIANCE III

Customer information packet

VUHL3518

.5/.37KWHP, 1740RPM, 1PH, 60HZ, 56C, 3518LC, T

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	C UR US CE CURUS UKCA WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	6.200 A @ 115.0 V 3.100 A @ 230.0 V 3.100 A @ 208.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	D
Type	AC
Mech. spec.	35E022
Base	
Status	PRD/A
Elec. spec.	35WGG588
Layout	35LYE022
Eff. date	09-17-2025
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	10-09-2023

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3518LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.23 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 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

NP1372L									
CAT.NO.	VUHL3518								
SPEC.	35E022G588								
HP	.5/.37KW								
VOLTS	115/208-230								
AMP	6.2/3.1								
R.P.M. (1/MIN)	1740								
FRAME	56C	HZ		60	PH		1		
SER.F.	1.15	CODE	N	DES	N	CL	F		
NEMA-NOM-EFF	72	PF	72						
RATING	40C AMB-S1 CONT								
CC	IP44 IC411 13KG								
DE	6205	ODE		6203					
ENCL	TEFC	SN							
IE2-60HZ 69.9(75%),62.5(50%)									

Parts List

Part number	Description	Quantity
SA418770	SA 35E022G588	1.000 ea
RA410676	RA 35E022G588	1.000 ea
OC3025F11	CYL OIL CAP 25MFD/370V	1.000 ea
EC1540A06SP	ELEC CAP, 540-648 MFD, 125V, 2.06D X 4.	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3122K00	MASTER ODE,203 BRG,.683SH,#26 DRN,FH MTG	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
35CB3801	CAPACITOR COVER, CAST	1.000 ea
34GS3002	GASKET, CAPACITOR BOX	1.000 ea
HA7010	CAPACITOR RETENTION CLAMP	1.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4005A32	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea

NP1372L	ALUM UL CE UKCA WEEE CC, A60	1.000 ea
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	4.000 ea
SP5181A01	MODEL 35 LC TORQ STAT SWITCH LEAD ASSY	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 101468

Typical performance - not guaranteed values

Winding: 35WGG588-R001			Type: 3518LC		Enclosure: TEFC	
Nameplate Data			230 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.5	Full Load Torque		1.509 LB-FT	
Volts		115/208-230	Start Configuration		direct on line	
Full Load Amps		6.2/3.1	Breakdown Torque		4.66 LB-FT	
R.P.M.		1740	Pull-up Torque		3.43 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		7.79 LB-FT
NEMA Design Code		N	KVA Code		N	
Service Factor (S.F.)		1.15	Starting Current		25.3 A	
Service Factor (S.F.)		1.15	No-load Current		2.25 A	
NEMA Nom. Eff.		72	Power Factor		72	
Line-line Res. @ 25°C		4.0719 Ω A Ph 1.6063 Ω B Ph				
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
Temp. Rise @ Rated Load		39°C				
S.F. Amps		6.6/3.5-3.3	Temp. Rise @ S.F. Load		44°C	

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	53	64	72	78	83	76
Efficiency	46.3	62.5	69.9	73.2	74.2	73.6	73.8
Speed	1781.7	1768.9	1755.3	1740.7	1723.7	1704.2	1730
Line amperes	2.29	2.46	2.72	3.06	3.49	4	3.32

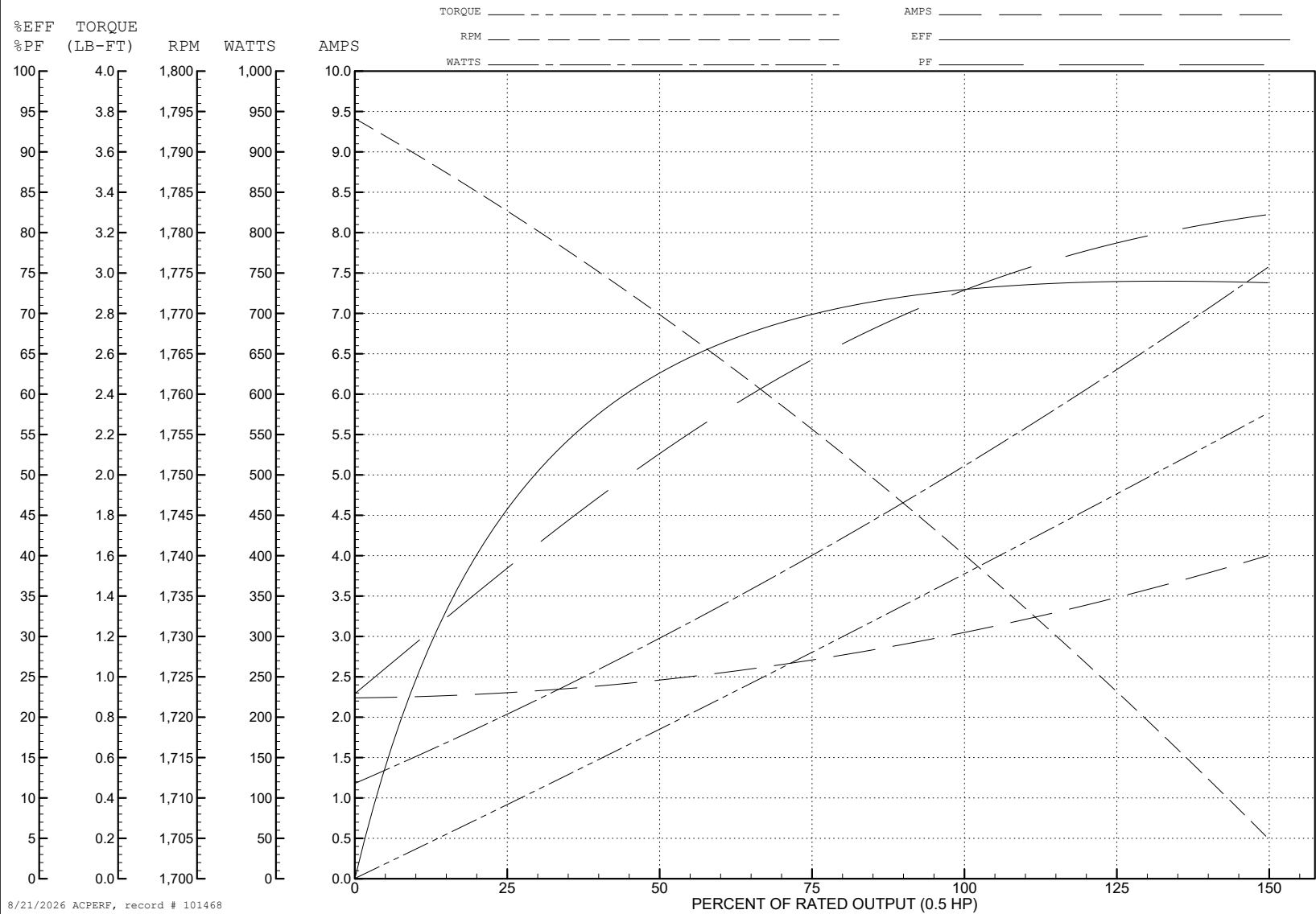
ABB Motors and Mechanical Inc.

WINDING # 35WGG588

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1740 RPM 230 V 3518LC

TORQUES (LB-FT): PO=4.66 PU=3.43 LR=7.79 LRA=25.3



AC Induction Motor Performance Data

Record # 101469

Typical performance - not guaranteed values

Winding: 35WGG588-R001			Type: 3518LC		Enclosure: TEFC	
Nameplate Data			208 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.5	Full Load Torque		1.514 LB-FT	
Volts		115/208-230	Start Configuration		direct on line	
Full Load Amps		6.2/3.1	Breakdown Torque		3.86 LB-FT	
R.P.M.		1740	Pull-up Torque		2.78 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		5.71 LB-FT
NEMA Design Code		N	KVA Code		N	
Service Factor (S.F.)		1.15	Starting Current		22.1 A	
Service Factor (S.F.)		1.15	No-load Current		1.85 A	
NEMA Nom. Eff.		72	Power Factor		72	Line-line Res. @ 25°C
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps		6.6/3.5-3.3	Temp. Rise @ S.F. Load		40°C	

Load Characteristics 208 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	61	72	79	84	87	82
Efficiency	51.2	66.3	71.8	73.5	72.6	70.3	73
Speed	1778.5	1763	1745.6	1726.2	1701.3	1672.7	1711
Line amperes	1.95	2.21	2.58	3.05	3.66	4.36	3.42

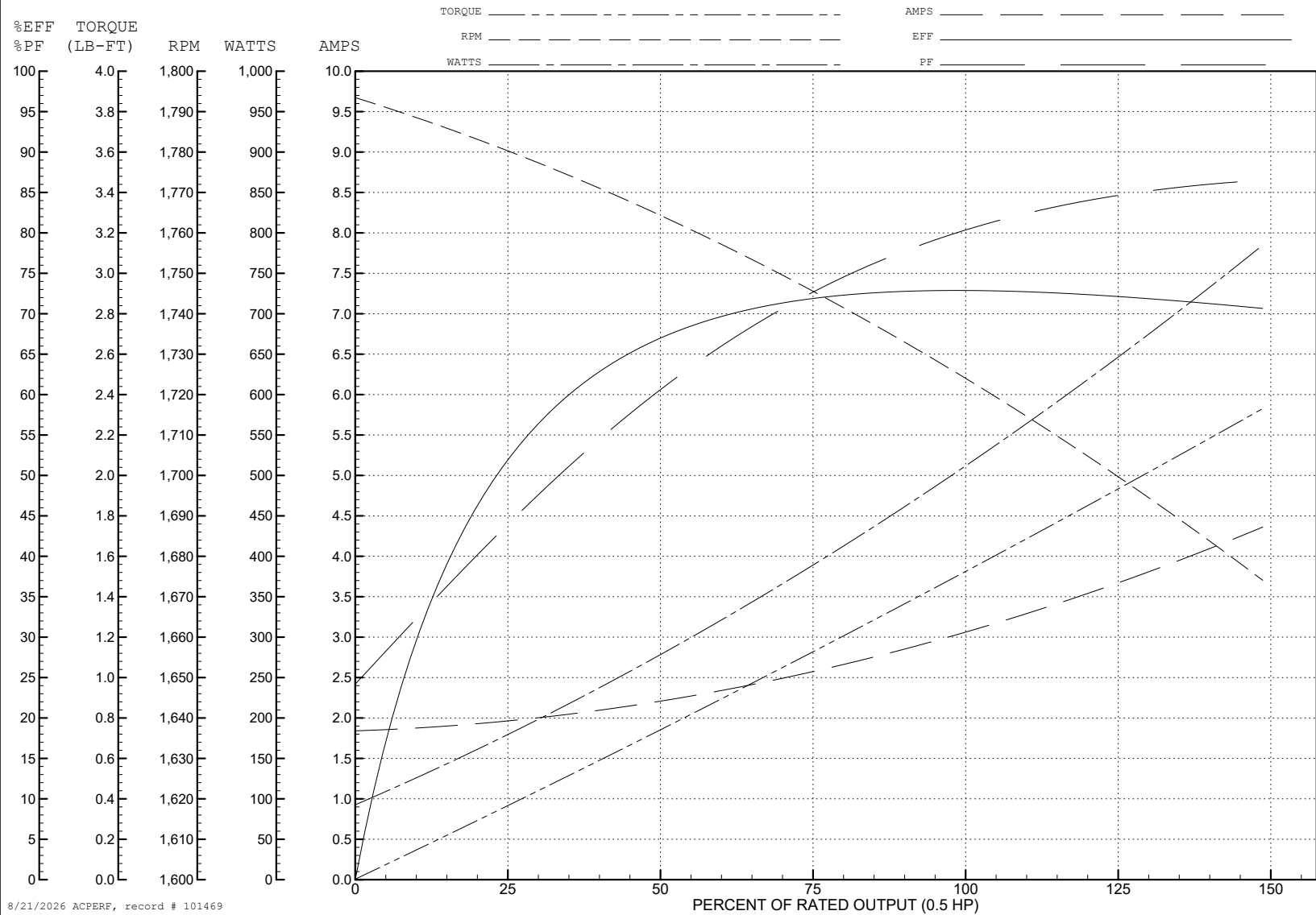
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WINDING # 35WGG588

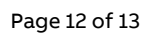
Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1740 RPM 208 V 3518LC

TORQUES (LB-FT) : PO=3.86 PU=2.78 LR=5.71 LRA=22.1



8/21/2026 ACPERF, record # 101469



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