

ABB BALDOR RELIANCE III

Customer information packet

CUHL3518

.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	Rigid
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	J
Type	AC
Mech. spec.	35E6093
Base	
Status	PRD/A
Elec. spec.	35WGG588
Layout	35LYE6093
Eff. date	10-29-2024
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	03-01-2023

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 Finish	CLEAR COAT
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3518LC
Mounting Arrangement	F3
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.	CUHL3518								
SPEC.	35E6093G588								
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 KG19 IC411						
DE	6205		ODE	6203					
ENCL	TEFC	SN							
IE2-60HZ 69.9 (75%),62.5 (50%)									

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
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
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

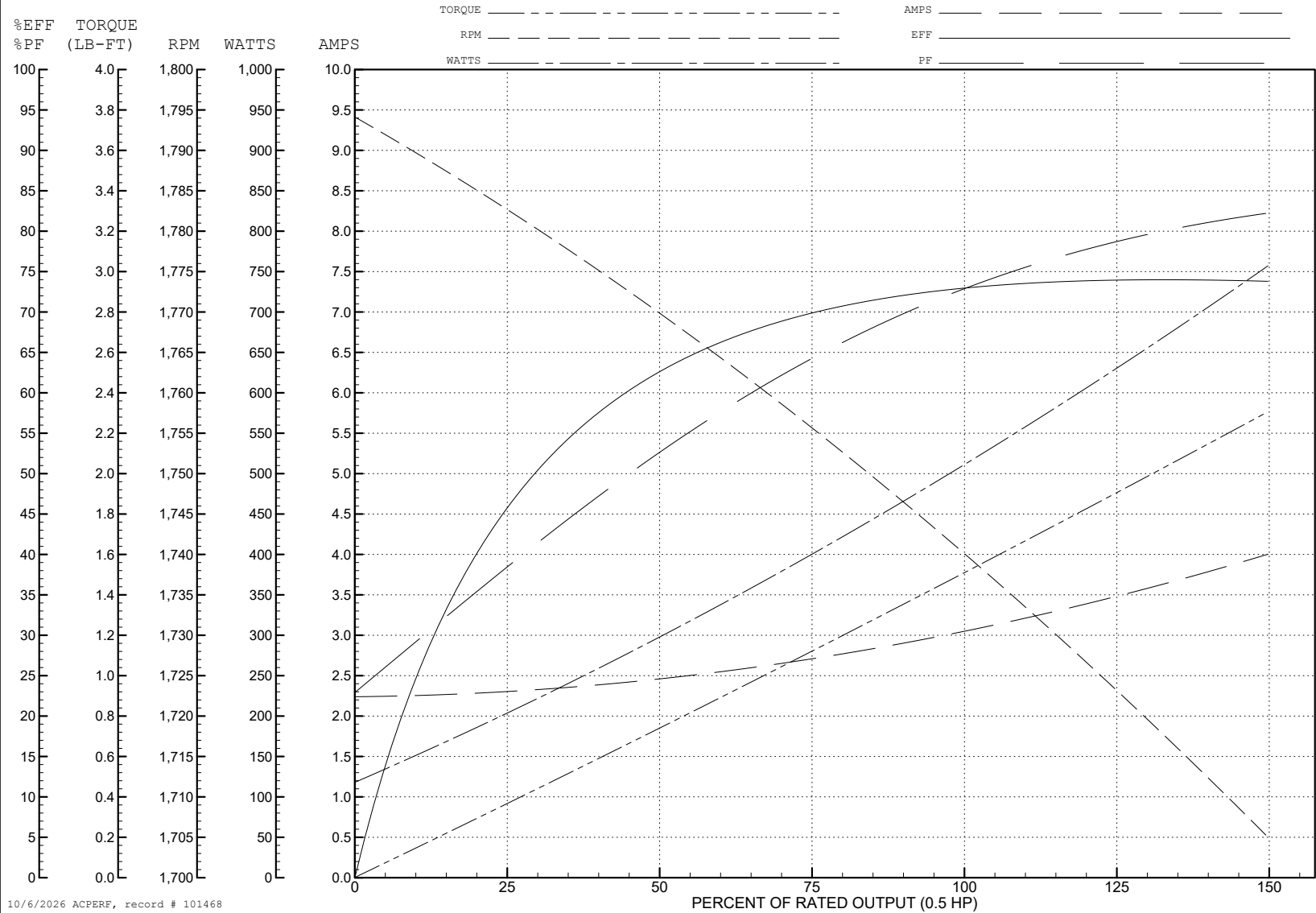
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WINDING # 35WGG588

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

ABB Motors and Mechanical Inc.

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

