

ABB BALDOR RELIANCE III

Customer information packet

WDL3504

.5HP, 1740RPM, 1PH, 60HZ, 56, 3520L, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA 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	3.450 A @ 208.0 V 3.500 A @ 230.0 V 7.000 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a

Part Detail

Revision	F
Type	AC
Mech. spec.	35J271
Base	
Status	PRD/A
Elec. spec.	35WGG470
Layout	35LYJ271
Eff. date	06-25-2026
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	08-01-2022

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.23 IN
Power Factor	70
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP1496L											
CAT.NO.	WDL3504										
SPEC.	35J271G470										
HP	.5										
VOLTS	115/230										
AMP	7/3.5										
RPM	1740										
FRAME	56		HZ	60				PH	1		
SER.F.	1.25		CODE	L	DES	N		CLASS	F		
NEMA-NOM-EFF	66		PF	70							
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	TEFC		SN								
	SFA 8.2/4.1										

AC Induction Motor Performance Data

Record # 94791

Typical performance - not guaranteed values

Winding: 35WGG470-R001			Type: 3520L		Enclosure: TEFC	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.5	Full Load Torque		1.511 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		7/3.5	Breakdown Torque		4.22 LB-FT	
R.P.M.		1740	Pull-up Torque		3.95 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		6.21 LB-FT	
NEMA Design Code		N KVA Code	Starting Current		43.3 A	
Service Factor (S.F.)		1.25	No-load Current		5.29 A	
NEMA Nom. Eff.		66 Power Factor	Line-line Res. @ 25°C		1.3669 Ω A Ph 2.3003 Ω B Ph	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		62°C	
S.F. Amps		8/4	Temp. Rise @ S.F. Load		78°C	
			Locked-rotor Power Factor		98.3	

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	49	61	70	77	82	77
Efficiency	42.8	57.5	63.6	65.7	65.6	63.7	65.6
Speed	1781.1	1768.1	1752.9	1735.9	1715.7	1690.5	1716
Line amperes	5.38	5.7	6.26	7.01	8.01	9.26	8.01

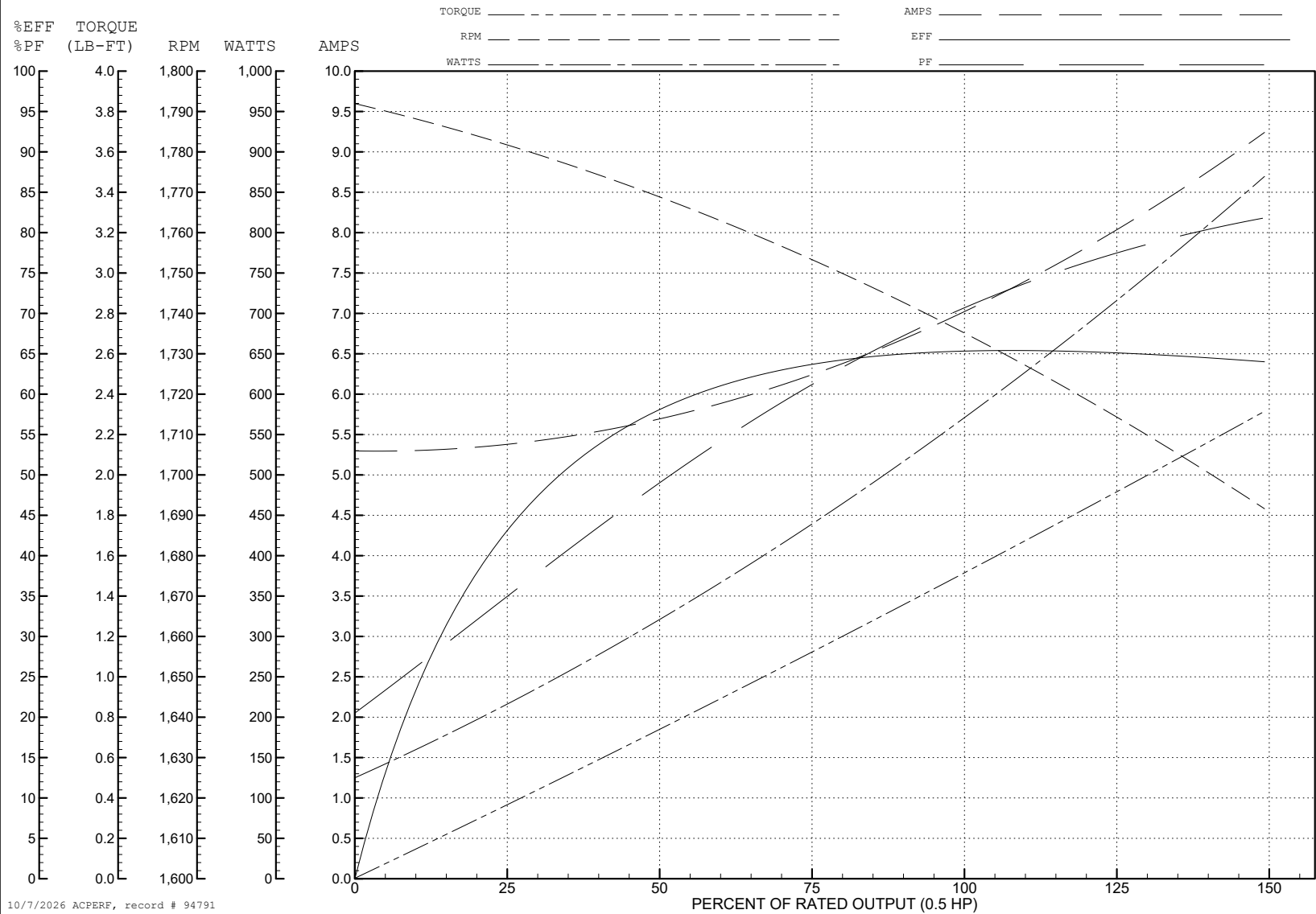
ABB Motors and Mechanical Inc.

WINDING # 35WGG470

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1740 RPM 115 V 3520L

TORQUES (LB-FT) : PO=4.22 PU=3.95 LR=6.21 LRA=43.3



CD0001

