

BALDOR • RELIANCE

Customer information packet

IR3510M

1HP, 1725RPM, 1PH, 60HZ, 56, 3528L, TEFC, F1, N

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	6.200 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	65.0 %
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	6.2 a
Insulation Class	F
Inverter Code	Not Inverter

Part detail

Revision	AB
Type	AC
Mech. spec.	35K634
Base	
Status	PRD/A
Elec. spec.	35WGY986
Layout	35LYK634
Eff. date	03-22-2018
CD Diagram	CD0045
Poles	04
Leads	8#18
Proprietary	False
Created date	01-01-0001

KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	8 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.25 IN
Power Factor	70
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	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1280L									
CAT.NO.	IR3510M								
SPEC.	35K634Y986								
HP	1								
VOLTS	230								
AMP	6.2								
RPM	1725								
FRAME	56	HZ	60	PH	1				
SER.F.	1.15	CODE	K	DES	L	CL	F		
NEMA-NOM-EFF	65	PF	70						
RATING	40C AMB-CONT								
CC	USABLE AT 208V								
DE	6205	ODE	6203						
ENCL	TEFC	SN							

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 10386

Typical performance - not guaranteed values

Winding: 35WGY986-R001		Type: 3528L		Enclosure: TEFC	
Nameplate Data			230 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)	1	Full Load Torque	3 LB-FT		
Volts	230	Start Configuration	direct on line		
Full Load Amps	6.2	Breakdown Torque	8.1 LB-FT		
R.P.M.	1725	Pull-up Torque	6.7 LB-FT		
Hz	60 Phase	1	Locked-rotor Torque	8.7 LB-FT	
NEMA Design Code	L	KVA Code	K	Starting Current	40.4 A
Service Factor (S.F.)	1.15	No-load Current	5.4 A		
NEMA Nom. Eff.	65	Power Factor	70	Line-line Res. @ 25°C	2.49 Ω A Ph 7.3 Ω B Ph
Rating - Duty	40C	AMB-CONT	Temp. Rise @ Rated Load	79°C	
S.F. Amps			Temp. Rise @ S.F. Load	89°C	

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	48	59	68	74	79	72
Efficiency	40	55	62	65	66	66	65.6
Speed	1785	1774	1763	1750	1736	1719	1742
Line amperes	5.5	5.8	6.3	7.1	8.1	9.1	7.7

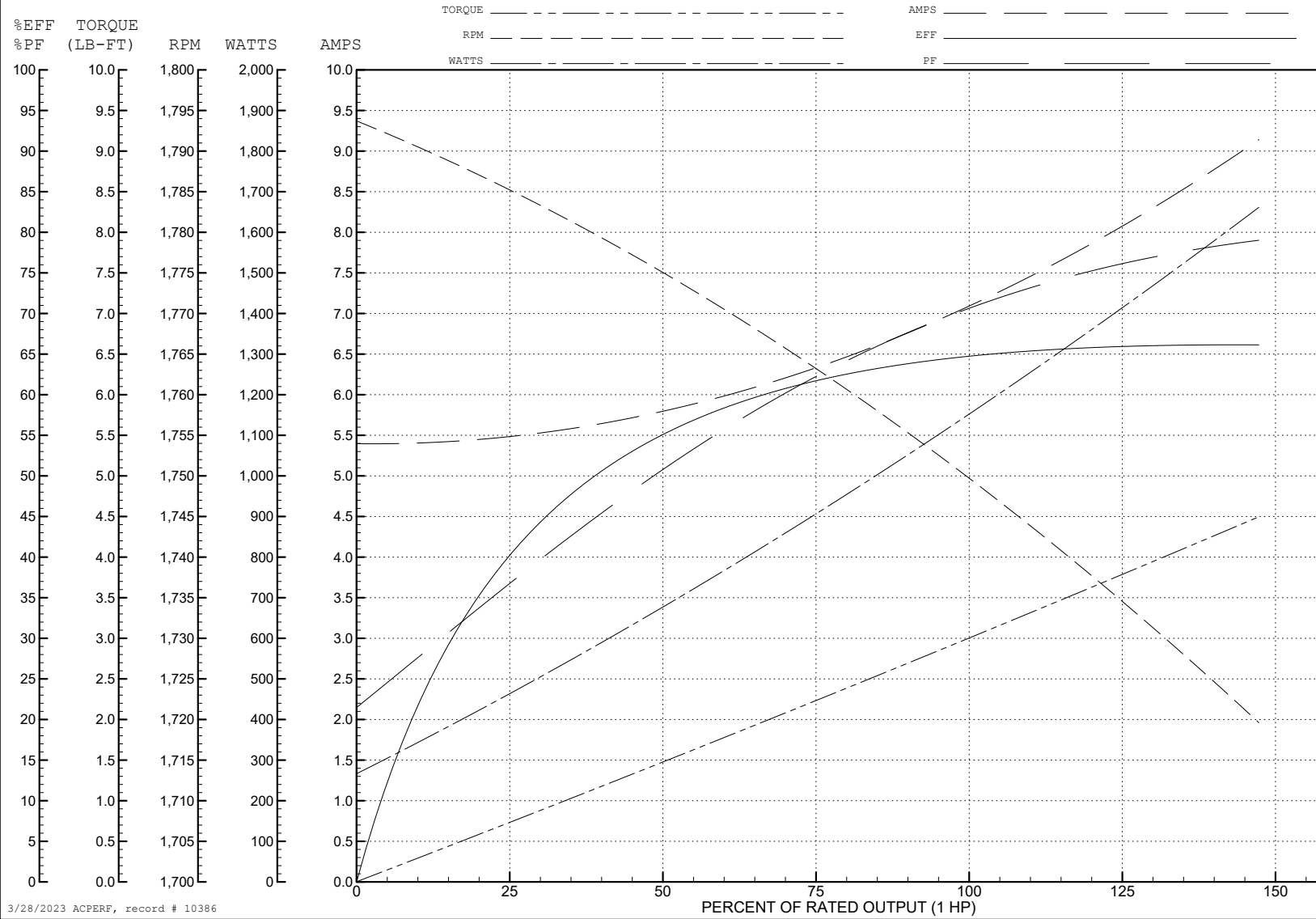
ABB Motors and Mechanical Inc.

WINDING # 35WGY986

Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1725 RPM 230 V 3528L

TORQUES (LB-FT): PO=8.1 PU=6.7 LR=8.7 LRA=40.4



3/28/2023 ACPERF, record # 10386

