

ABB BALDOR RELIANCE III

Customer information packet

2048-153D

1.5HP, 3600RPM, 3PH, 60HZ, 3516M, 3516M, TEFC

Specifications

Enclosure	TEFC
Frame	143
Frame Material	Steel
Frequency	60.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Nameplate Output	1 1/2
Number of Poles	2 2
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3 3
Product Style	BELT SANDER
Speed	3450 rpm 3450 rpm
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage	208 V 230 V 460 V
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR
Ambient Temperature	40 °C
Base Indicator	Rigid
Current @ Voltage	2.300 A @ 460.0 V 4.600 A @ 230.0 V 5.000 A @ 208.0 V
Design Code	B
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Insulation Class	B

Part Detail

Revision	AU
Type	AC
Mech. spec.	B2-3
Base	
Status	PRD/A
Elec. spec.	35WG0082
Layout	B2LY0003
Eff. date	12-15-2021
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	01-01-0001

KVA Code	G
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Power Factor	76
Product Family	Belt Sander
Service Factor	1.15
Shaft Extension Location	Pulley End
Shaft Rotation	Phase Seq-Opp Std Rot (CWOE)
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None

Nameplate

NP3118			
CAT.NO.	2048-153D		
HP	1 1/2	VOLTS	208-230/460
PHASE	3	AMPS	5-4.6/2.3
HZ	50//60	RPM	3000//3600
SER.NO			
SPEC.	B2-3C		

Accessories

Part number	Description	Multiplier
GA16	PEDESTAL INDUSTRIAL, CAST IRON 6" - 10"	A8
GA14	PEDESTAL FABRICATED STEEL W/SHELVES	A8
GA20	PEDESTAL INDUSTRIAL, CAST IRON 8"-14"	A8
GA20E	PEDESTAL LIGHT INDUSTRIAL,STEEL	A8
AB248	2' X 48" 80 GRIT GRINDER BELT	A8

AC Induction Motor Performance Data

Record # 8025

Typical performance - not guaranteed values

Winding: 35WG0082-R001			Type: 3516M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		2.3 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		5-4.6/2.3	Breakdown Torque		9 LB-FT	
R.P.M.		3450	Pull-up Torque		6.5 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		7.2 LB-FT	
NEMA Design Code		B KVA Code	Starting Current		16 A	
Service Factor (S.F.)		1.15	No-load Current		1.4 A	
NEMA Nom. Eff.		75.5 Power Factor	Line-line Res. @ 25°C		11.8 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		63°C	
S.F. Amps			Temp. Rise @ S.F. Load		70°C	
			Locked-rotor Power Factor		67	
			Rotor inertia		0.0443 LB-FT2	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	59	71	79	83	86	81
Efficiency	52.2	66.7	72.7	75.5	76.2	76.1	75.9
Speed	3558	3528	3496	3461	3424	3382	3439
Line amperes	1.6	1.8	2.1	2.4	2.8	3.2	2.64

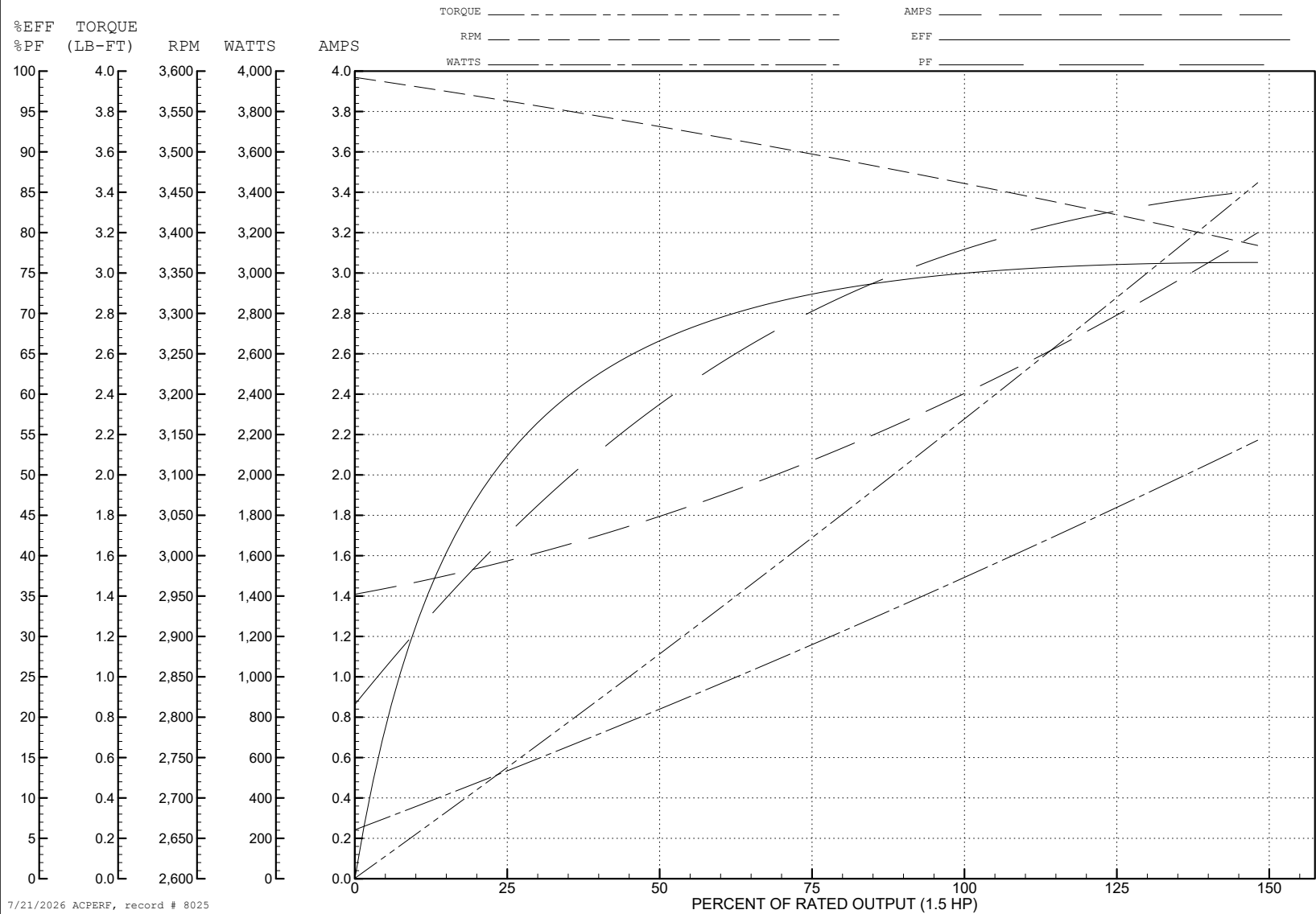
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WINDING # 35WG0082

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

TORQUES (LB-FT) : PO=9 PU=6.5 LR=7.2 LRA=16



AC Induction Motor Performance Data

Record # 20302

Typical performance - not guaranteed values

Winding: 35WG0082-R008			Type: 3516M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1.5	Full Load Torque		2.3 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		5-4.6/2.3	Breakdown Torque		9 LB-FT		
R.P.M.		3450	Pull-up Torque		6.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		7.2 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		16 A
Service Factor (S.F.)		1.15	No-load Current		1.4 A		
NEMA Nom. Eff.		75.5	Power Factor	76	Line-line Res. @ 25°C		11.8 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		63°C
S.F. Amps					Temp. Rise @ S.F. Load		70°C
					Locked-rotor Power Factor		67
					Rotor inertia		0.0443 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	59	71	79	83	86	81
Efficiency	52.2	66.7	72.7	75.5	76.2	76.1	75.9
Speed	3558	3528	3496	3461	3424	3382	3439
Line amperes	1.6	1.8	2.1	2.4	2.8	3.2	2.64

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WINDING # 35WG0082

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

TORQUES (LB-FT) : PO=9 PU=6.5 LR=7.2 LRA=16

