

ABB BALDOR RELIANCE III

Customer information packet

248-153TD

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

Specifications

Enclosure	TEFC
Frame Material	Steel
Frequency	60.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Number of Poles	2 2
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3 3
Product Style	PIVOT BELT SANDER
Speed	3450 rpm 3450 rpm
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage	208 V 230 V 460 V
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ
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
KVA Code	G
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Standards	Other

Part Detail

Revision	AT
Type	AC
Mech. spec.	B2-5
Base	
Status	PRD/A
Elec. spec.	35WG0082
Layout	B2LY0005
Eff. date	12-15-2021
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	01-01-0001

Motor Type	3516M
Mounting Arrangement	F1
Power Factor	76
Product Family	Pivot Belt Sander
Service Factor	1.15
Shaft Extension Location	Pulley End
Shaft Rotation	Phase Seq-Opp Std Rot (CWODE)
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None

Nameplate

NP3118			
CAT.NO.	248-153TD		
HP	1.5	VOLTS	208-230/460
PHASE	3	AMPS	5-4.6/2.3
HZ	60	RPM	3450
SER.NO			
SPEC.	B2-5C		

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	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

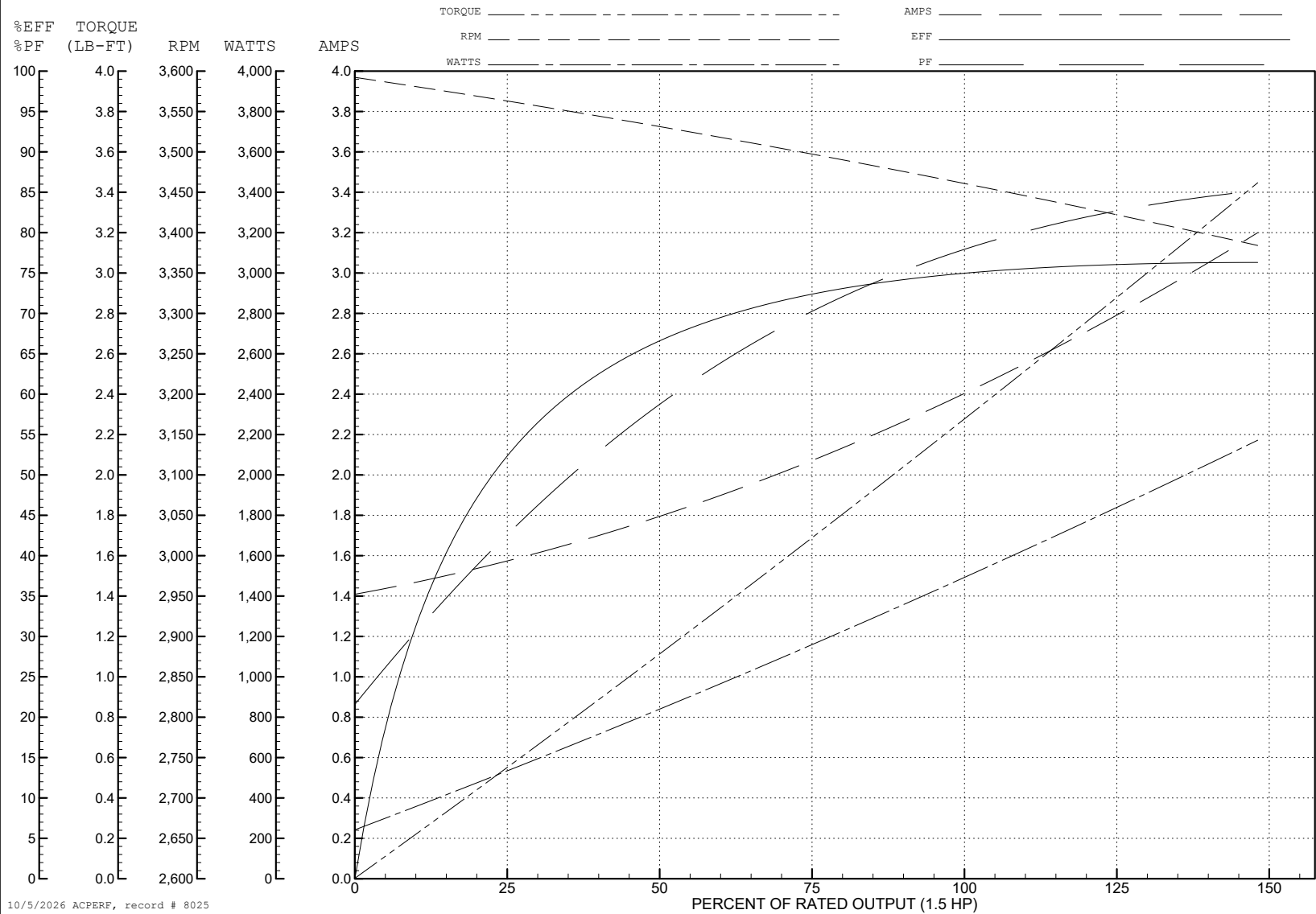
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WINDING # 35WG0082

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



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

