PRODUCT INFORMATION PACKET



Model No: TCA18P4A3141GACD01
Catalog No: TCA18P4A3141GACD01

Cast Iron Motor, 25 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 225S Frame, TEFC





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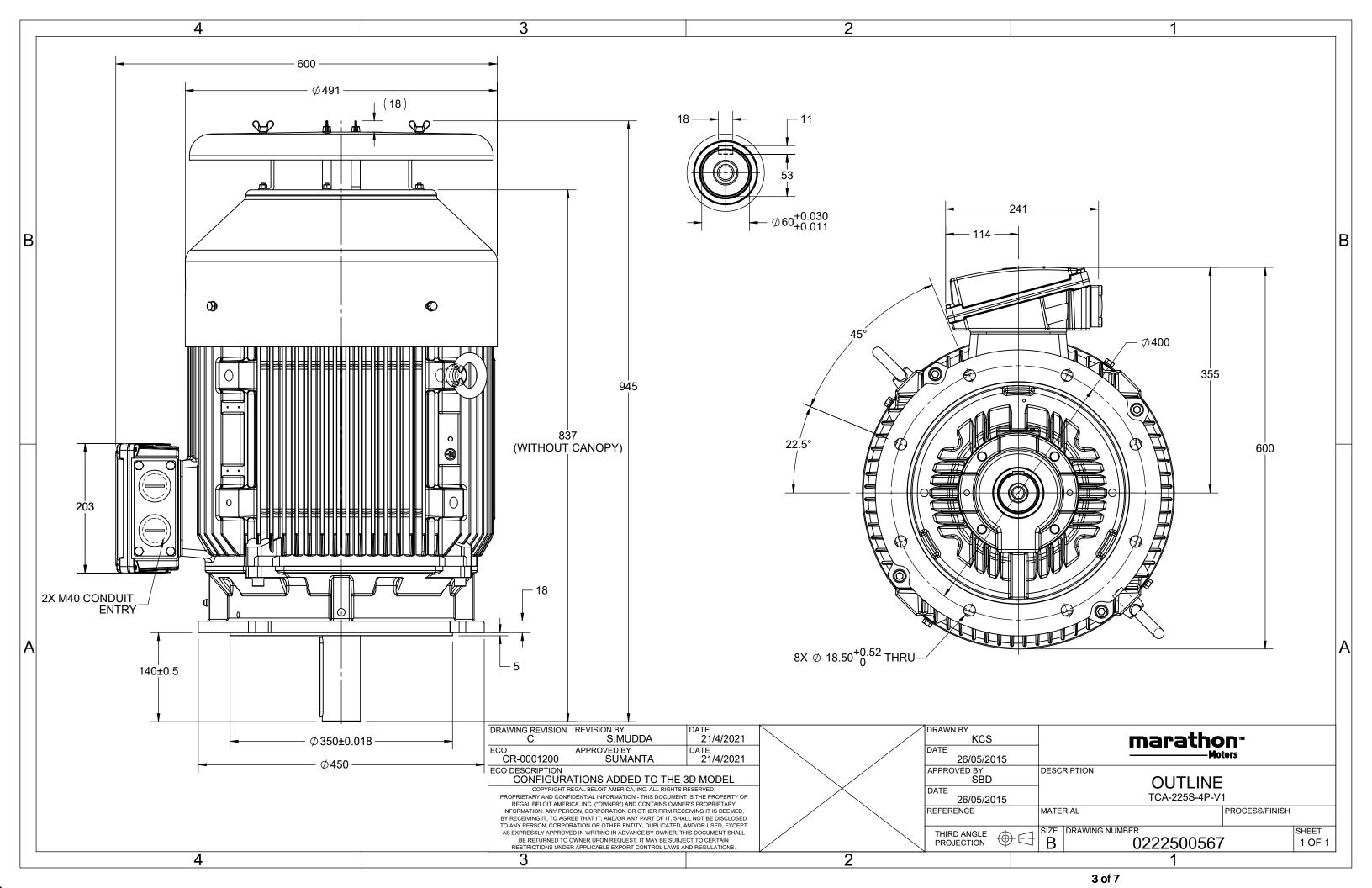
Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW		
Frequency	50 Hz	Voltage	415 V		
Current	37.6 A	Speed	739 rpm		
Service Factor	1	Phase	3		
Efficiency	90.1 %	Power Factor	0.76		
Duty	S1	Insulation Class	F		
Frame	225\$	Enclosure	Totally Enclosed Fan Cooled		
Thermal Protection	No Protection	Ambient Temperature	50 °C		
Drive End Bearing Size	6313	Opp Drive End Bearing Size	6213		
UL	No	CSA	No		
CE	Yes	IP Code	55		
Number of Speeds	1	Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Bi-Directional
Mounting	V1	Motor Orientation	Horizontal
Drive End Bearing	С3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	943 mm	Frame Length	400 mm
Shaft Diameter	60 mm	Shaft Extension	140 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0222500567

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DRAWING REVISION	REVISION BY	DATE
Α	SN	13/01/2017
ECO	APPROVED BY	DATE
ECO-0116390	SBD	13/01/2017
ECO DESCRIPTION		

NEW DRAWING RELEASE

GEOM	ENTRIC TOLE	RANCE
	>0~6	±0.1
LINEAR DIM	>6~30	±0.2
	>30~120	±0.3



NOTES:

- 1.
- 2.
- PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE 3. BY THE TABLE.

8WD.442.2017







Model No. TCA18P4A3141GACD01

U	Δ/Υ	f	Р	Р	- 1	n	T	IE	%	EFF at _	_ load		PF	at lo	ad	I _A /I _N	T_A/T_N	T_K/T_N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	5/4FL	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
415	Δ	50	18.5	25	37.6	739	241.05	IE3		90.1	90.1	90.1	0.76	0.69	0.56	5.4	1.9	2.5

Motor type	TCA	
Enclosure	TEFC	
Frame Material	Cast Iron	
Frame size	225S	
Duty	S1	
Voltage variation *	± 10%	
Frequency variation *	± 5%	
Combined variation *	10%	
Design	N	
Service factor	1.0	
Insulation class	F	
Ambient temperature	-20 to +50	°C
Temperature rise (by resist	ance) 70 [Class B]	K
Altitude above sea level	1000	meter
Hazardous area classification	on NA	
Zone classification	NA	
Gas group	NA	
Temperature class	NA	
Rotor type	Aluminum die cast	
Bearing type	Anti-friction ball bearing	
DE / NDE bearing	6313 C3 / 6213 C3	
Lubrication method	Regreasable	
Type of grease	Shell Gadus S5 V100 or Equivalent	

Degree of protection	IP 55	
Mounting type	IM V1	
Cooling method	IC 411	
Motor weight - approx.	363	kg
Gross weight - approx.	393	kg
Motor inertia	0.8781	kgm ²
Load inertia	Customer to Provide	
Vibration level	2.2	mm/s
Noise level (1meter distance from moto	or) 61	dB(A)
No. of starts hot/cold/Equally spread	2/3/4	
Starting method	DOL	
Type of coupling	Direct	
LR withstand time (hot/cold)	15/30	S
Direction of rotation	Bi-directional	
Standard rotation	Clockwise form DE	
Paint shade	RAL 5014	
Accessories		
Accessory - 1	-	
Accessory - 2	-	
Accessory - 3	-	
Terminal box position	TOP	
Maximum cable size/conduit size	LR x 3C x 50mm ² /2 x M40 x 1.5	
Auxiliary terminal box	NA	

 $\rm I_A/I_N$ - Locked Rotor Current / Rated Current

 T_A/T_N - Locked Rotor Torque / Rated Torque

 T_K/T_N - Breakdown Torque / Rated Torque

NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1 $\,$

* Voltage, Frequency and combine variation are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	-	-	IS 12615 : 2018	-	-	-

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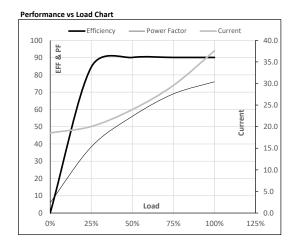




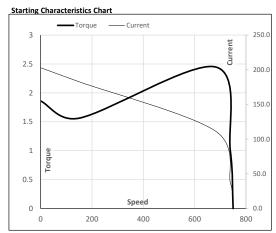
Model No. TCA18P4A3141GACD01

Enclosure	U	Δ/Υ	f	Р	Р	1	n	T	T	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	415	Δ	50	18.5	25.0	37.6	739	24.58	241.05	IE3	50	S1	1000	0.8781	363

Motor Load Data 5/4FL NL 1/4FL 1/2FL 3/4FL FL Load Point Current 18.6 20.1 24.0 29.6 37.6 Α 119.6 180.1 241.1 Torque Nm 0.0 59.6 750 747 745 Speed r/min 742 739 Efficiency % 0.0 84.5 90.1 90.1 90.1 Power Factor 6.0 38.3 56.0 69.0 76.0



Motor Speed Torque Data LR P-Up BD Rated NL Load Point 150 680 739 750 0 Speed r/min Current Α 203.0 182.7 112.0 37.6 18.6 Torque pu



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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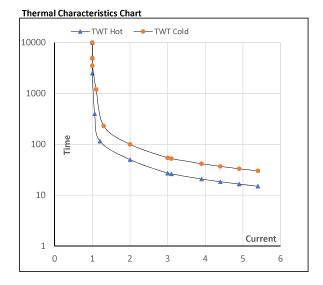




Model No. TCA18P4A3141GACD01

(V) Conn [Hz] [kW] [hp] [A] [rpm] [kgm] [Nm] Class [°C] [m] [kg-m²]	Enclosure	U	Δ/Y	f	Р	Р	I	n	Т	Т	ΙE	Amb	Duty	Elevation	Inertia	Weight
TEFC 415 Λ 50 18.5 25 37.6 739 24.56 241.05 IF3 50 S1 1000 0.8781		(V)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m²]	[kg]
12.5 25 27.05 241.05 241.05 25 0.0761	TEFC	415	Δ	50	18.5	25	37.6	739	24.56	241.05	IE3	50	S1	1000	0.8781	363

Motor Speed Torque Data LR Load FL s 10000 15 TWT Hot 20 TWT Cold s 10000 100 40 36 31 30 Current 1 3 4.5 5 5.4 pu



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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