

# PRODUCT INFORMATION PACKET

Model No: TCM5P52A2121GAC011

Catalog No: TCM5P52A2121GAC011

TerraMAX® IE3, Mining Duty Motors, 5.5 kW, 3Ph, 4 Pole, 400/690V, B5, 50Hz, 132S Frame, TEFC



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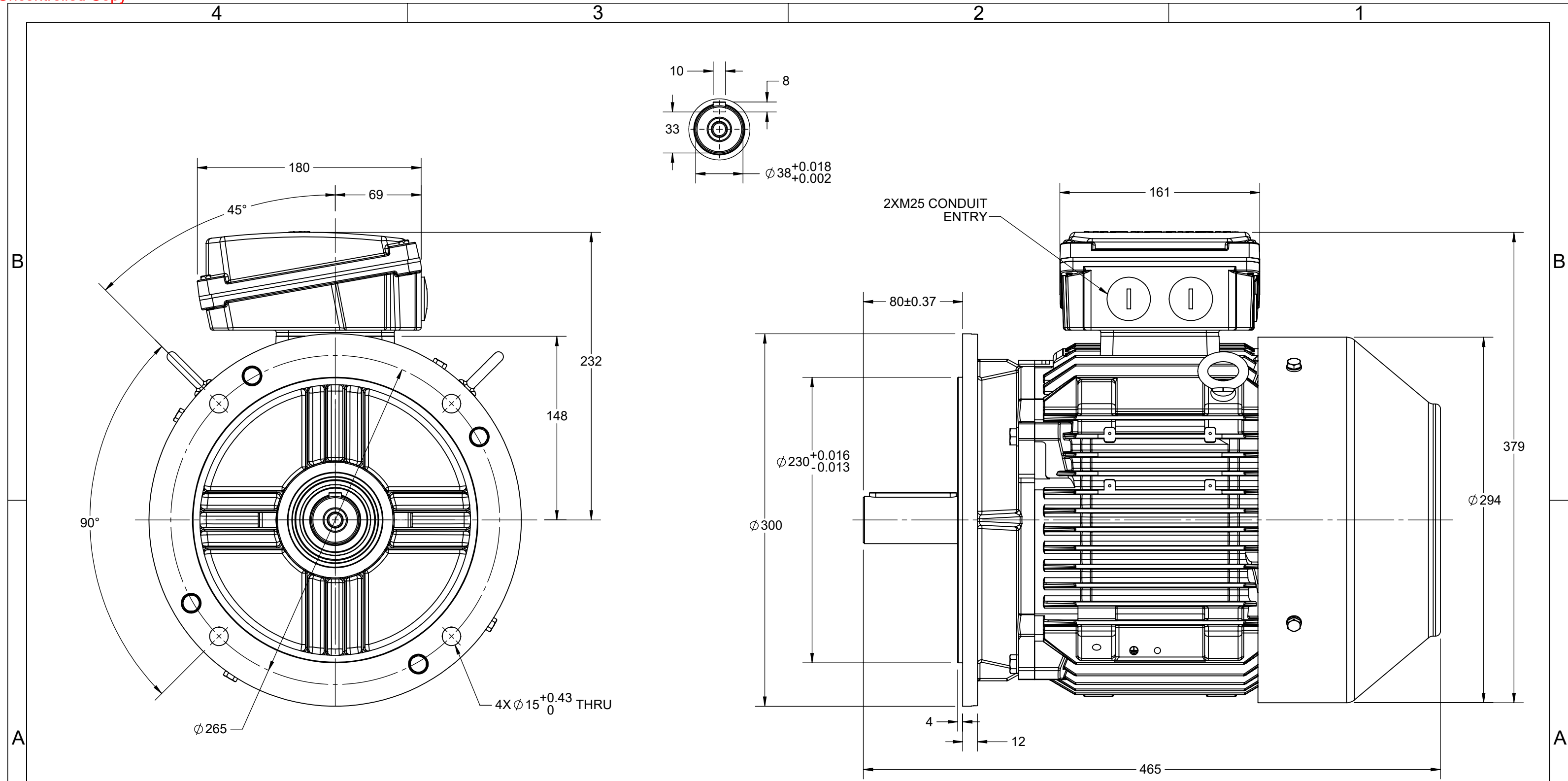
### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>7.50 Hp</b>
Output KW	<b>5.5 kW</b>	Voltage	<b>400/690 V</b>
Speed	<b>1468 rpm</b>	Service Factor	<b>1</b>
Frame	<b>132S</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>89.6 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>50 Hz</b>
Current	<b>10.5 A</b>	Power Factor	<b>0.84</b>
Duty	<b>S1</b>	Insulation Class	<b>H</b>
Drive End Bearing Size	<b>6308</b>	Opp Drive End Bearing Size	<b>6208</b>
UL	<b>NO</b>	CSA	<b>NO</b>
CE	<b>YES</b>	IP Code	<b>66</b>
Number of Speeds	<b>1</b>	Efficiency Class	<b>IE3</b>

### Technical Specifications

Electrical Type	<b>Squirrel Cage</b>	Starting Method	<b>Direct On Line</b>
Poles	<b>4</b>	Rotation	<b>Bi-Directional</b>
Mounting	<b>B5</b>	Motor Orientation	<b>Horizontal</b>
Drive End Bearing	<b>Z - C3</b>	Opp Drive End Bearing	<b>Z - C3</b>
Frame Material	<b>Cast Iron</b>	Shaft Type	<b>Keyed</b>
Overall Length	<b>465 mm</b>	Frame Length	<b>202 mm</b>
Shaft Diameter	<b>38 mm</b>	Shaft Extension	<b>80 mm</b>
Assembly/Box Mounting	<b>TOP</b>		
Outline Drawing	<b>0213201082</b>	Connection Drawing	<b>8442000085</b>

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DRAWING REVISION B	REVISION BY BS	REV DATE/© DATE 12/11/2021	DRAWN BY LK		
REQUEST NUMBER CR-0005431	APPROVED BY BISWA	DATE 12/11/2021	DATE 03/08/2018		
REQUEST NUMBER DESCRIPTION UPDATED DRAWING			APPROVED BY SBD	DESCRIPTION <b>OUTLINE</b> 132S FR- B5 MTG. TYPE: TCM	
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			REFERENCE	SIZE B	DRAWING NUMBER 0213201082

PRIMARY DIMENSIONS ARE mm  
INCH DIMENSIONS IN [BRACKETS]  
ARE FOR REFERENCE ONLY

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DRAWING REVISION <b>A</b>	REVISION BY <b>SN</b>	DATE <b>13/01/2017</b>
ECO <b>ECO-0116390</b>	APPROVED BY <b>SBD</b>	DATE <b>13/01/2017</b>
ECO DESCRIPTION <b>NEW DRAWING RELEASE</b>		

GEOMETRIC TOLERANCE		
LINEAR DIM	>0~6	±0.1
	>6~30	±0.2
	>30~120	±0.3



**NOTES:**

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

8WD.442.2017



DRAWN BY <b>SN</b>	DATE <b>16/12/2016</b>		 <b>Regal Beloit America, Inc.</b>
	APPROVED BY <b>SBD</b>		
	DATE <b>16/12/2016</b>		DESCRIPTION <b>CONN DIAGRAM-NAMEPLATE</b>
	REFERENCE	MATERIAL	PROCESS/FINISH
	THIRD ANGLE PROJECTION 	SIZE <b>A</b>	DRAWING NUMBER <b>8442000085</b>

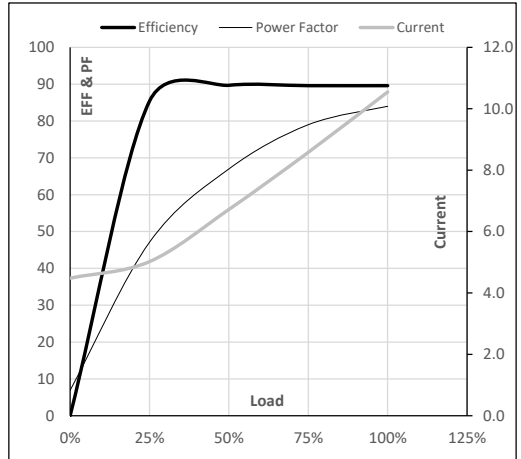
**Model No.** TCM5P52A2121GAC011

Enclosure	U (V)	$\Delta / Y$ Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m <sup>2</sup> ]	Weight [kg]
TEFC	400	$\Delta$	50	5.5	8	10.5	1468	3.71	36.40	IE3	40	S1	1000	0.0446	87

**Motor Load Data**

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	4.5	5.0	6.7	8.6	10.5	
Torque	Nm	0.0	8.9	18.0	27.1	36.4	
Speed	r/min	1500	1492	1485	1477	1468	
Efficiency	%	0.0	85.4	89.7	89.6	89.6	
Power Factor	%	6.9	47.1	67.0	79.0	84.0	

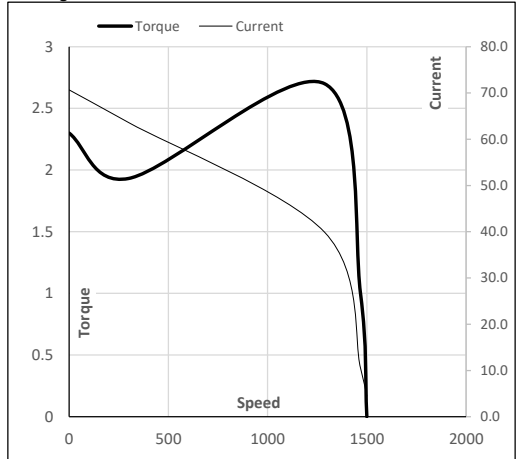
**Performance vs Load Chart**



**Motor Speed Torque Data**

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	300	1287	1468	1500
Current	A	70.7	63.6	39.9	10.5	4.5
Torque	pu	2.3	1.9	2.7	1	0

**Starting Characteristics Chart**



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

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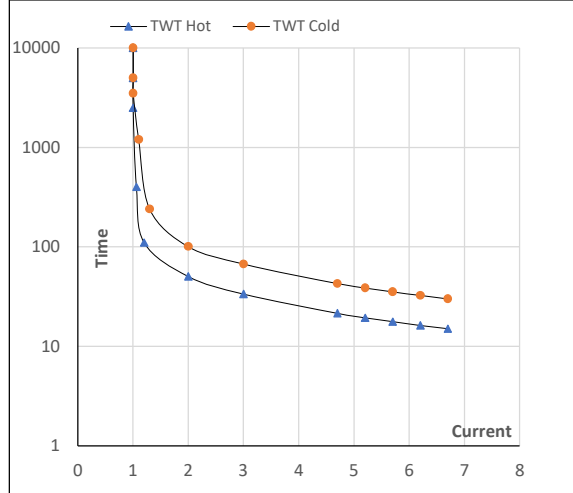
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**Motor Speed Torque Data**

Load	FL	I <sub>1</sub>	I <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>	I <sub>5</sub>	LR	
TWT Hot	s 10000	50	34	25	20	17	15	
TWT Cold	s 10000	101	67	55	40	33	30	
Current	pu	1	2	3	4	5	6	6.7

**Thermal Characteristics Chart**



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

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