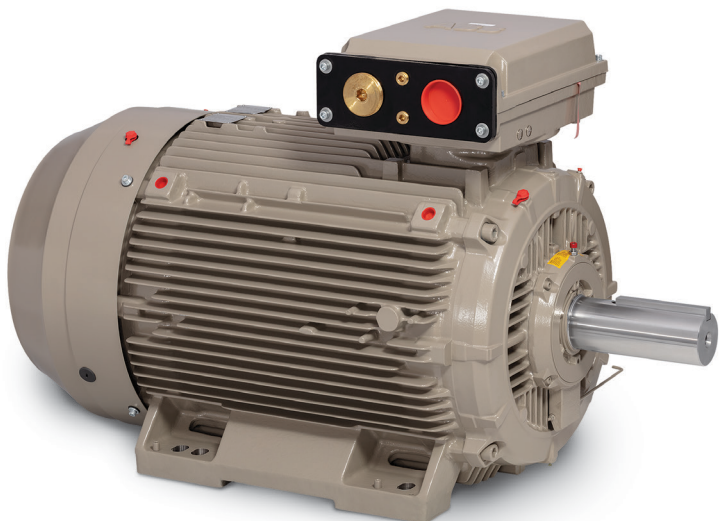


PRODUCT NOTE

## Crusher duty

586/7 frame ECR motors 250 Hp - 600 Hp, 460V/60Hz and 575V/60Hz



The ABB Crusher Duty motor 586/7 series is designed to maximize uptime in even the most demanding applications. Crusher Duty motors not only incorporate enhanced connection features, but provide safety features not typically seen in other motors of this style. These motors are stocked in the US and Canada for fast delivery.



### Basic information:

- Industry standard 586/7 frame critical mounting dimensions
- 1.15 Service factor
- Inverter ready 4:1 CT & 20:1 VT
- ABB /Smart Sensor compatible
- Painting system C3M according to ISO 12944-5:2007
- UL/cUL certified
- 3 year warranty



### Ease of Use:

- Large (approx. 16.2" x 20.6" x 7.5"), top mounted F3 conduit box, rotatable in 90 degree increments
- Terminal block for easy and convenient cable connections
- Integrated vibration probe landing points on both ends for easy vibration checks
- Easy access grease reliefs on both ends offer quicker and simpler regreasing of the bearings



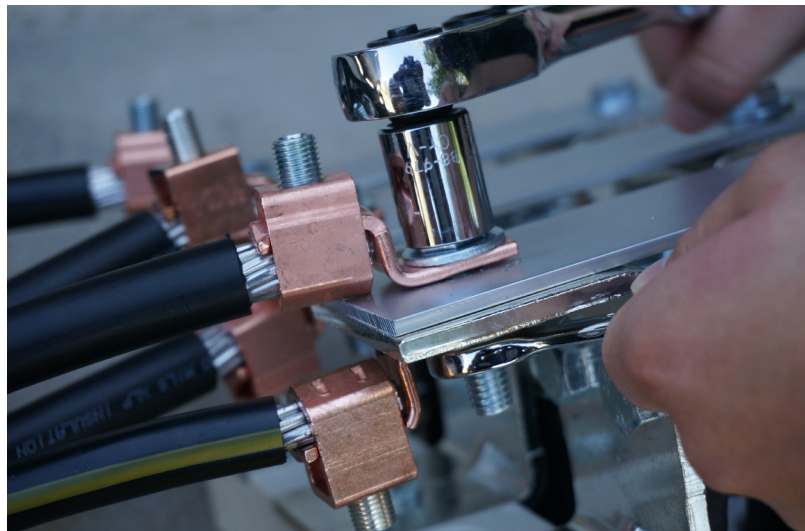
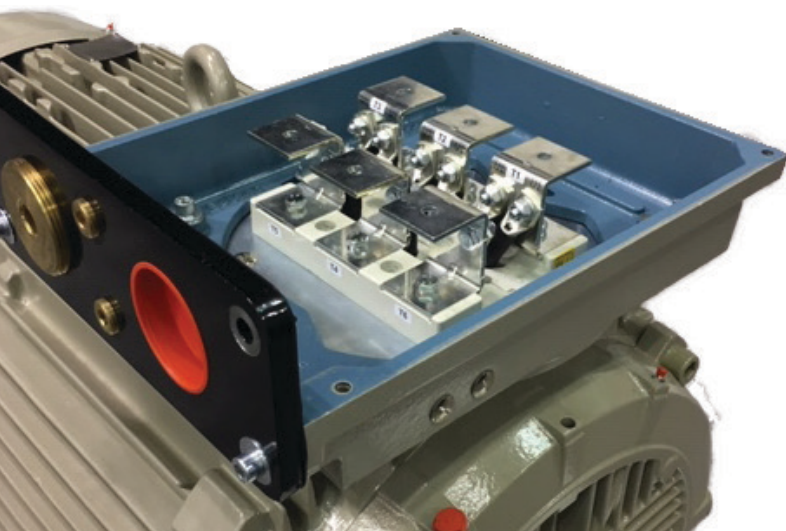
### Reliability:

- Robust IP66 enclosure
- High torque, Design A profile provides the power to get the job done
- Class F (shock rated) insulation with Class B temperature limits to withstand harsh conditions and severe vibration loads
- Bolted lead terminations provide lead separation and reduce vibration at typical failure points
- Oversized 4.375" diameter shaft, 4140 material - provides additional durability in tough belted applications
- Oversized bearings:
  - DE: NU324 roller bearing to handle the toughest belted applications
  - NDE: 6322 insulated ball bearing; axially locked for vertical applications



### Safety:

- Equipped with (3) lift lugs & (5) lifting location points - safer handling, manipulation and installation of motor



HP	RPM	NEMA Frame	Catalog Number	Bearing Type	S.F.	CT (Hz)	VT (Hz)	Voltage	Full Load Amps	Full Load Eff. % (Nom.)	Full Load Torque (Lb-Ft)	LRT	BDT
250	1200	586/7TZ	ECR582506-PPN	Roller bearing	1.15	15-60	6-60	460	295	95.8	1102	200%	250%
		586/7TZ	ECR582506-5PPN	Roller bearing	1.15	15-60	6-60	575	237	96.2	1102	200%	250%
	900	586/7T	ECR582508-PP	Roller bearing	1.15	15-60	6-60	460	312	95	1473	160%	280%
		586/7TZ	ECR583004-PPN	Roller bearing	1.15	15-60	6-60	460	343	96.2	880	250%	310%
	1800	586/7TZ	ECR583004-5PPN	Roller bearing	1.15	15-60	6-60	575	270	96.2	880	250%	310%
		586/7TZ	ECR583006-PPN	Roller bearing	1.15	15-60	6-60	460	352	95.8	1320	230%	280%
300	1200	586/7TZ	ECR583006-5PPN	Roller bearing	1.15	15-60	6-60	575	279	95.8	1320	230%	280%
		586/7T	ECR583008-PP	Roller bearing	1.15	15-60	6-60	460	379	95	1765	160%	280%
	1800	586/7TZ	ECR583504-PPN	Roller bearing	1.15	15-60	6-60	460	396	96.2	1025	240%	300%
		586/7TZ	ECR583504-5PPN	Roller bearing	1.15	15-60	6-60	575	309	96.2	1025	240%	300%
350	1200	586/7TZ	ECR583506-PPN	Roller bearing	1.15	15-60	6-60	460	407	95.8	1539	210%	250%
		586/7TZ	ECR583506-5PPN	Roller bearing	1.15	15-60	6-60	575	323	95.8	1539	210%	250%
	900	586/7T	ECR583508-PP	Roller bearing	1.15	15-60	6-60	460	436	95.2	2056	180%	300%
		586/7TZ	ECR584004-PPN	Roller bearing	1.15	15-60	6-60	460	452	96.2	1170	220%	270%
	1800	586/7TZ	ECR584004-5PPN	Roller bearing	1.15	15-60	6-60	575	362	96.2	1170	220%	270%
		586/7TZ	ECR584006-PPN	Roller bearing	1.15	15-60	6-60	460	465	95	1763	240%	260%
400	1200	586/7TZ	ECR584006-5PPN	Roller bearing	1.15	15-60	6-60	575	368	95	1763	240%	260%
		586/7T	ECR584008-PP	Roller bearing	1.15	15-60	6-60	460	490	95	2357	140%	280%
	1800	586/7TZ	ECR584504-PPN	Roller bearing	1.15	15-60	6-60	460	519	96.2	1321	290%	300%
		586/7TZ	ECR584504-5PPN	Roller bearing	1.15	15-60	6-60	575	397	96.2	1321	290%	300%
450	1200	586/7TZ	ECR584506-PPN	Roller bearing	1.15	15-60	6-60	460	530	95	1983	260%	280%
		586/7TZ	ECR584506-5PPN	Roller bearing	1.15	15-60	6-60	575	416	95	1466	280%	310%
	900	586/7T	ECR584508-PP	Roller bearing	1.15	15-60	6-60	460	559	95	2648	150%	300%
		586/7TZ	ECR585004-PPN	Roller bearing	1.15	15-60	6-60	460	576	96.2	1466	280%	310%
	1800	586/7TZ	ECR585004-5PPN	Roller bearing	1.15	15-60	6-60	575	455	96.2	1466	280%	310%
		586/7TZ	ECR585006-PPN	Roller bearing	1.15	15-60	6-60	460	603	95.8	2200	220%	250%
500	1200	586/7TZ	ECR585006-5PPN	Roller bearing	1.15	15-60	6-60	575	471	95.8	2200	220%	250%
		586/7TZ	ECR586004-PPN	Roller bearing	1.15	15-60	6-60	460	679	96.2	1763	240%	260%
600	1800	586/7TZ	ECR586004-5PPN	Roller bearing	1.15	15-60	6-60	575	541	96.2	1763	240%	260%

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