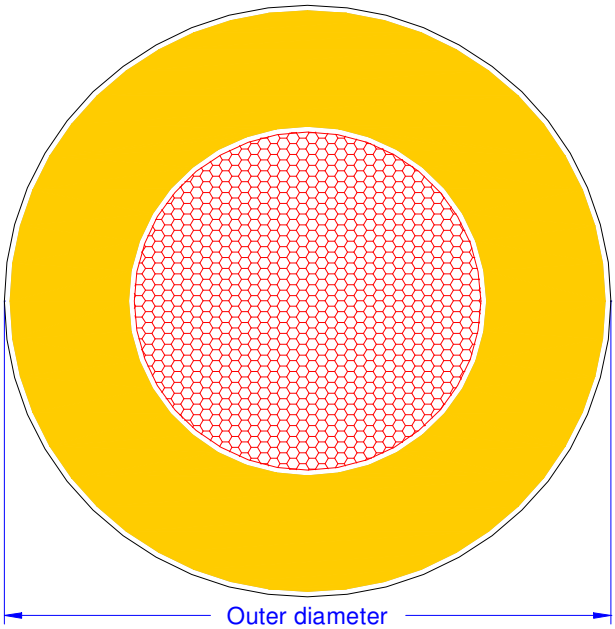
Automotive Leitungen ungeschirmt für elektrische Fahrzeugantriebe

FHL2G T200 0,6 / 1,0 kV

Unshielded cable for automotive electric powertrain

FHL2G T200 0.6 / 1.0 kV



Aufbauvorschrift	LV 216-1 Tabelle A.1 ISO 6722-1	***Specification***	*LV 216-1 table A.1* *ISO 6722-1*
Leiter		***Conductor***	
Leiterwerkstoff:	E-Cu ETP1 nach DIN EN 13602	*Conductor material:*	*E-Cu ETP1 according DIN EN 13602*
Leiteraufbau:	Litze Cu.-blank	*Conductor design:*	*stranded bare copper*
Aderisolation		***Core insulation***	
Isolationswerkstoff:	mod. Siliconkautschuk SiR	*Insulation material:*	*mod. Silicon rubber SiR*
Aderfarbe:	orange ähnlich RAL 2003	*Colour code:*	*orange similar RAL 2003*
Herstellerkennung		***Marking***	
Mantelaufdruck:		*Outer sheath is printed:*	

COROPLAST 9-2652 FHL2G XX mm² ϟ ATTENTION HIGH VOLTAGE MAX 600 V AC / 1000 V DC ϟ [xx…xx]

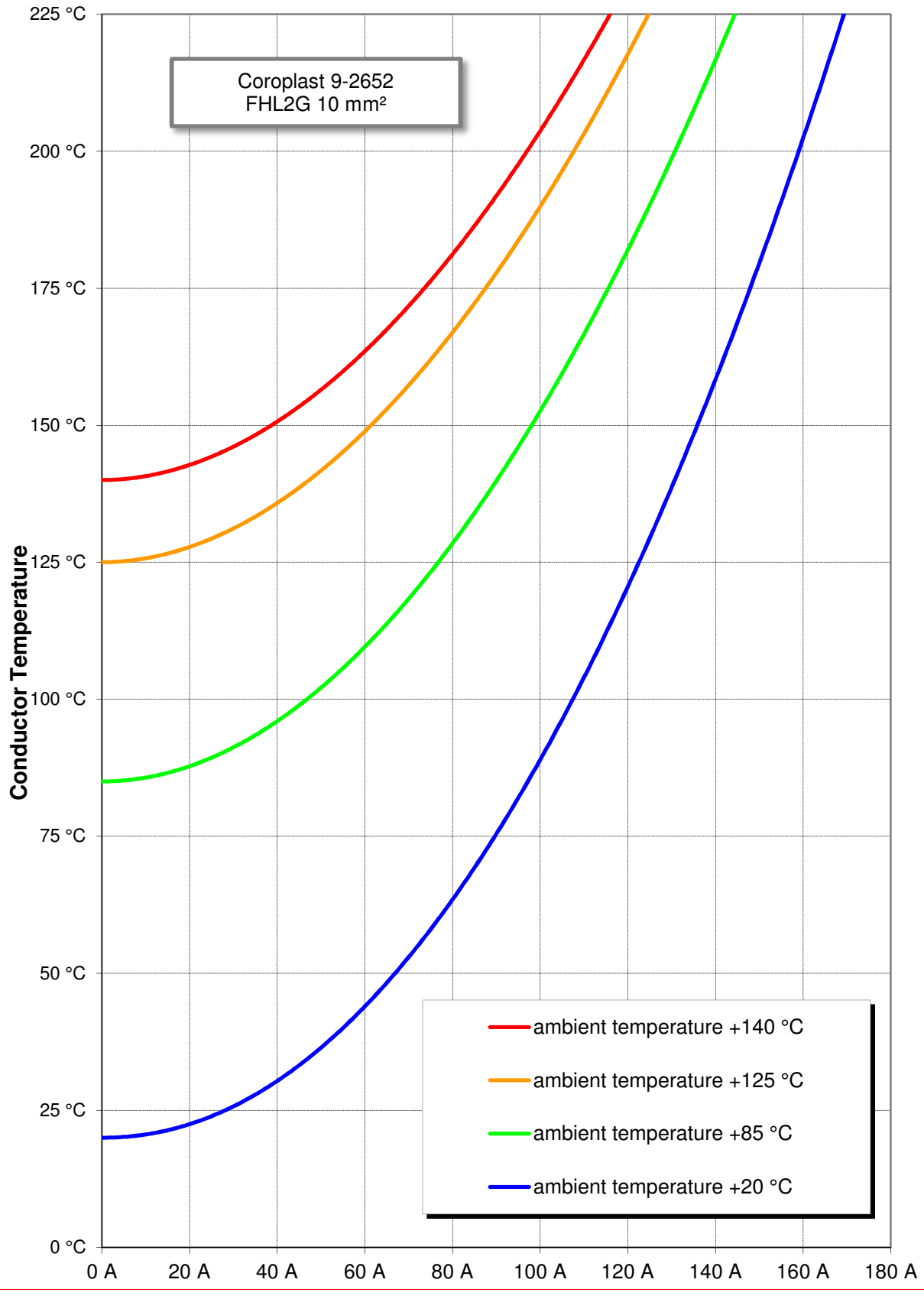
[xx…xx]:	Interne Codierung	*[xx…xx]:*	*Internal Code*
Druckabstand:	max. 200 mm	*Distance of marking:*	*max. 200 mm*
Elektrische Eigenschaften		***Electrical properties***	
Prüfspannung:	eff. 8,0 kVolt Sparktester eff. 5,0 kVolt 5 Minuten	*Test voltage:*	*eff. 8.0 kVolt spark test* *eff. 5.0 kVolt 5 minutes*
Nennspannung: (AC / DC)	max. 600 / 1000 Volt	*Nominal voltage: (AC / DC)*	*max. 600 / 1000 Volt*
Mechanische Eigenschaften		***Mechanical properties***	
Biegeradius:		*Bend radius:*	
- min. 2 x Außen-∅:	statische Verlegung	*- min. 2 x cable-∅:*	*static installation*
- min. 4 x Außen-∅:	dynamische Verlegung	*- min. 4 x cable-∅:*	*dynamic installation*

Thermische Eigenschaften			***Thermal properties***		
Temperaturbereich:	-40 °C bis +200 °C	(3000 h)	*Operating temperature:*	*-40 °C to +200 °C*	*(3000 h)*
Kurzzeitalterung:	bis +225 °C	(240 h)	*Short term ageing:*	*to +225 °C*	*(240 h)*

Aufbaudaten / ***Design data***

Designation **Cross-section**	**Conductor Design** (nom.)	**Resistance** [mΩ/m]	**Insulation wall thickness** [mm]	**Outer diameter** [mm]
FHL2G 4.0 mm²	120 (± 5%) x max. 0.21mm	max. 4.7	min. 0.64	4.4 (- 0.4)
FHL2G 6.0 mm²	183 (± 5%) x max. 0.21mm	max. 3.1	min. 0.64	5.0 (- 0.4)
FHL2G 10 mm²	320 (± 5%) x max. 0.21mm	max. 1.82	min. 0.8	6.5 (- 0.6)
FHL2G 12 mm²	380 (± 5%) x max. 0.21mm	max. 1.52	min. 0.8	7.2 (- 0.8)
FHL2G 16 mm²	512 (± 5%) x max. 0.21mm	max. 1.16	min. 0.8	8.3 (- 0.6)
FHL2G 20 mm²	610 (± 5%) x max. 0.21mm	max. 0.955	min. 0.88	8.7 (- 0.6)
FHL2G 25 mm²	790 (± 5%) x max. 0.21mm	max. 0.743	min. 1.04	10.0 (- 0.6)
FHL2G 30 mm²	900 (± 5%) x max. 0.21mm	max. 0.647	min. 1.04	10.4 (- 0.7)
FHL2G 35 mm²	1070 (± 5%) x max. 0.21mm	max. 0.527	min. 1.04	11.0 (- 0.7)
FHL2G 40 mm²	1200 (± 5%) x max. 0.21mm	max. 0.473	min. 1.12	11.9 (- 0.7)
FHL2G 50 mm²	1600 (± 5%) x max. 0.21mm	max. 0.368	min. 1.2	13.2 (- 0.8)
FHL2G 60 mm²	1850 (± 5%) x max. 0.21mm	max. 0.315	min. 1.2	14.2 (- 0.8)
FHL2G 70 mm²	2175 (± 5%) x max. 0.21mm	max. 0.259	min. 1.2	15.1 (- 0.8)
FHL2G 85 mm²	2700 (± 5%) x max. 0.21mm	max. 0.218	min. 1.28	16.2 (- 1.0)
FHL2G 95 mm²	3000 (± 5%) x max. 0.21mm	max. 0.196	min. 1.28	17.4 (- 1.0)

Anhang: Current load, continuous power depending on ambient temperature Calculated according to LV112-3 (draft May 2009))



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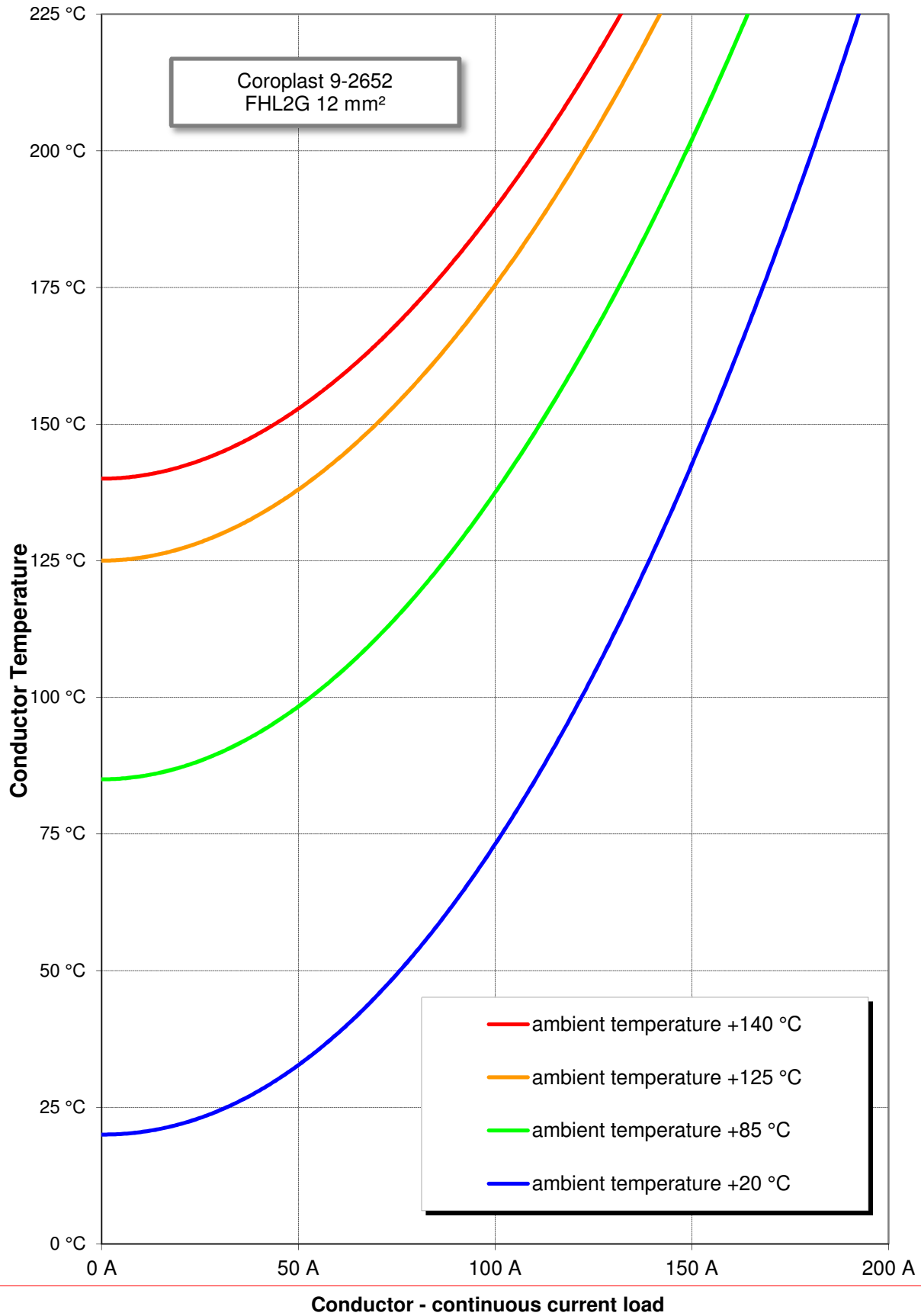

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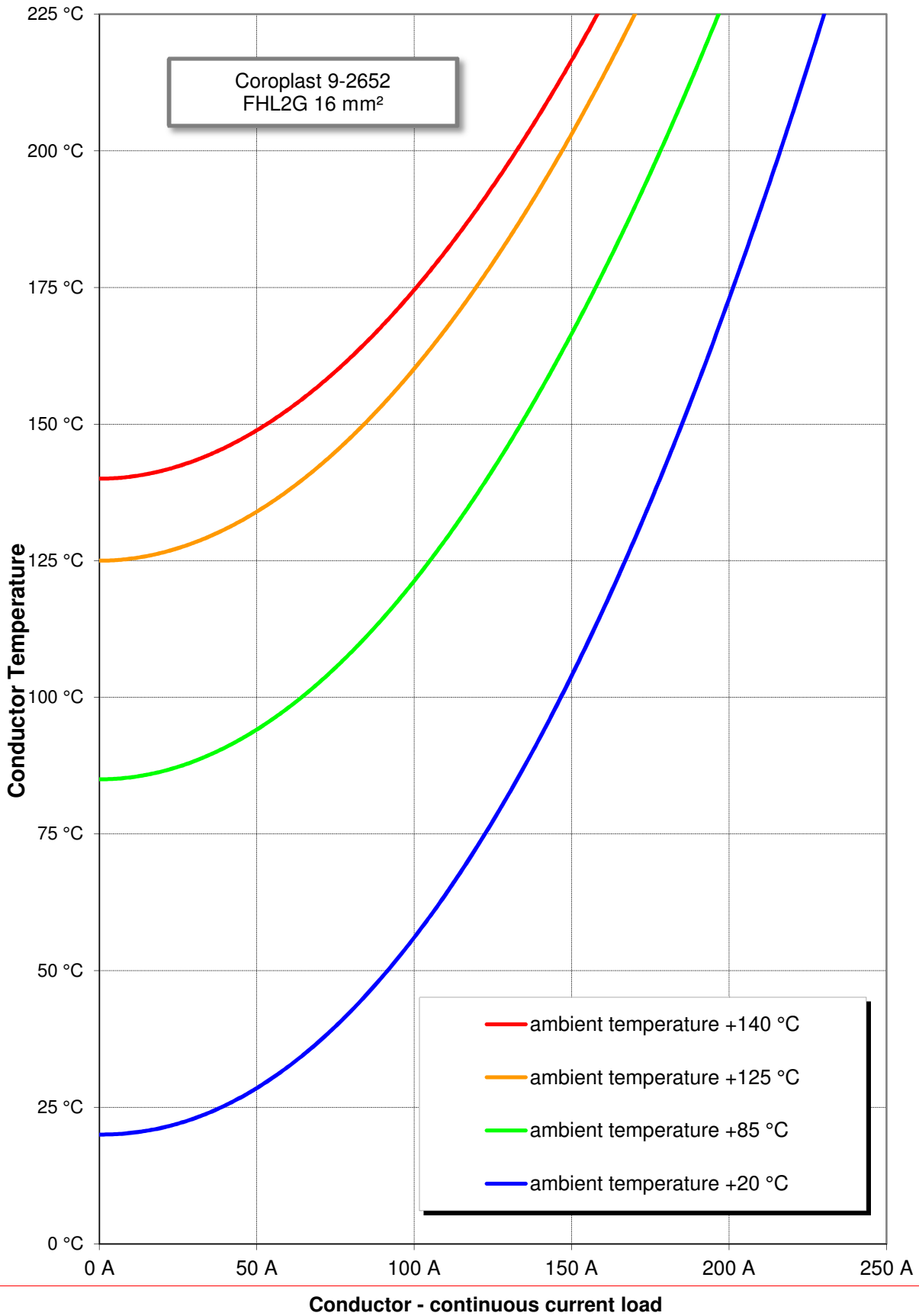

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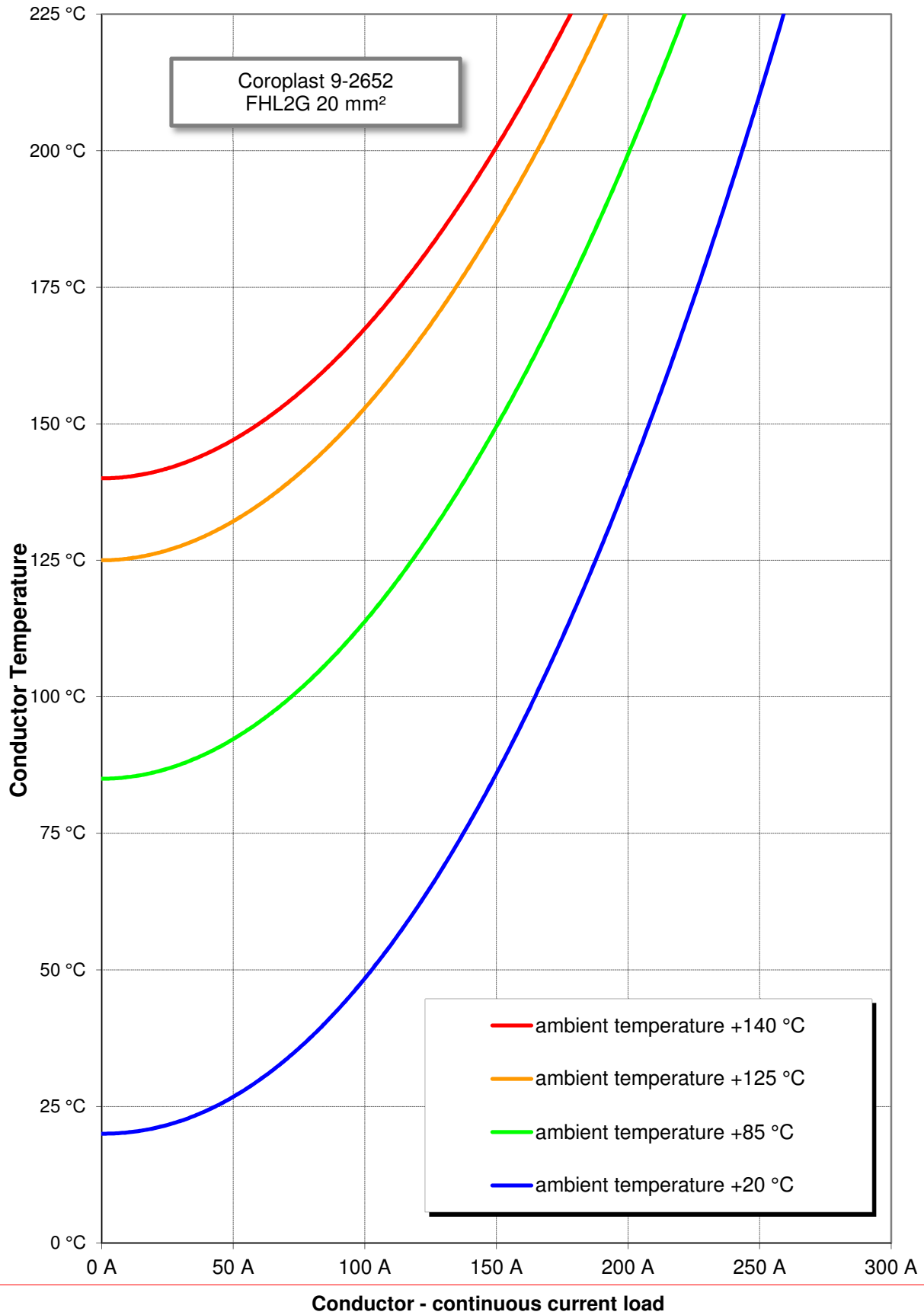

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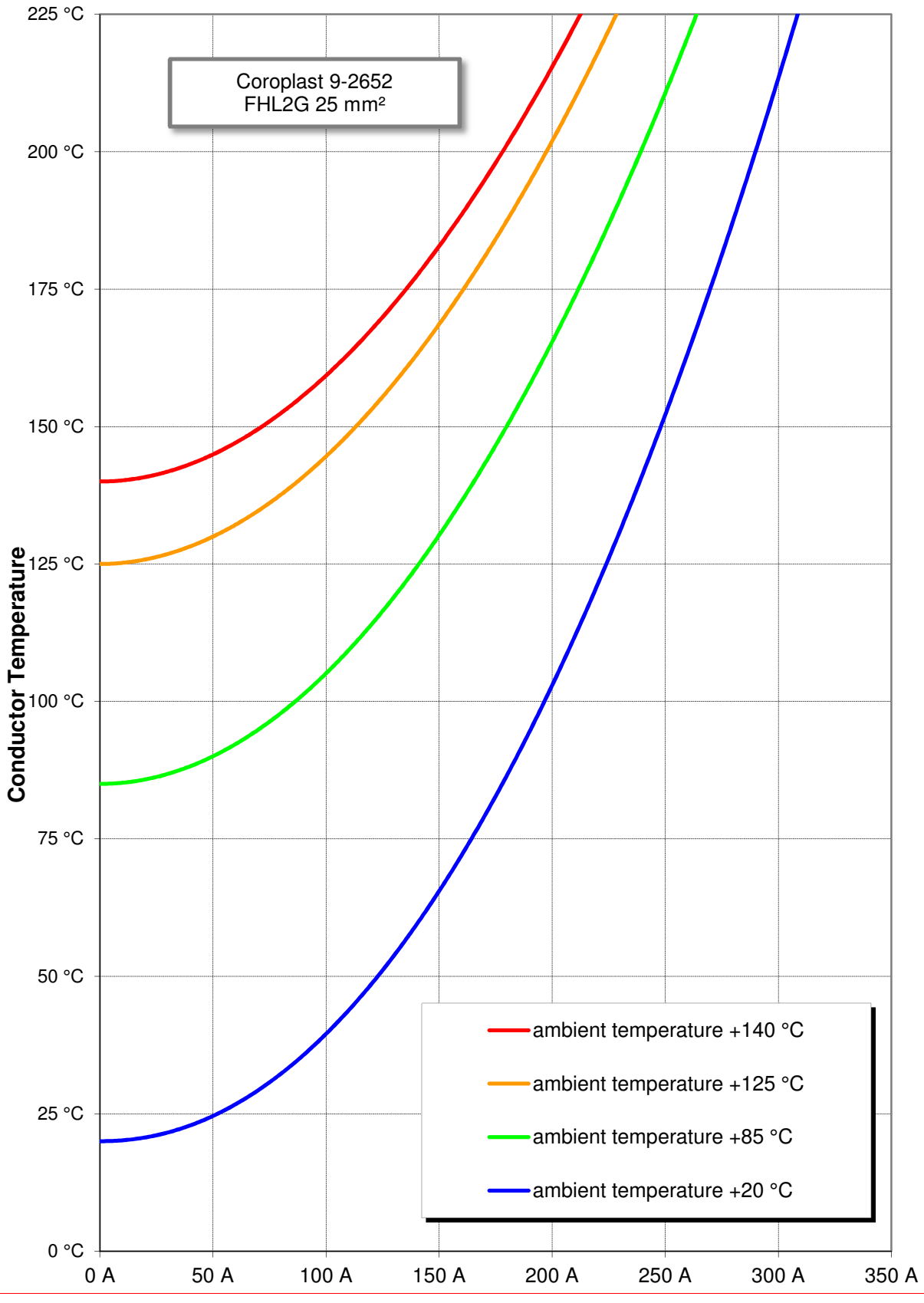

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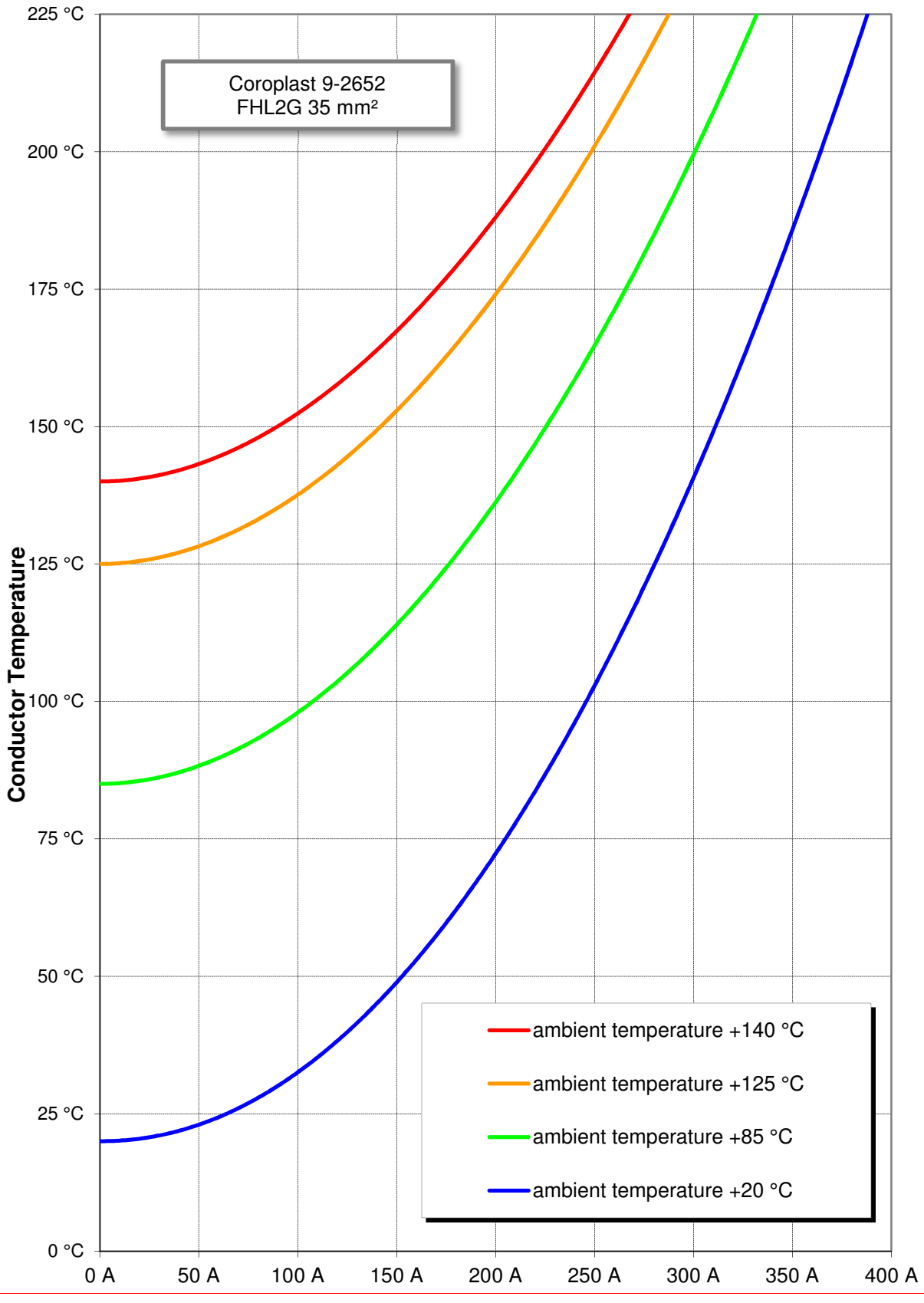
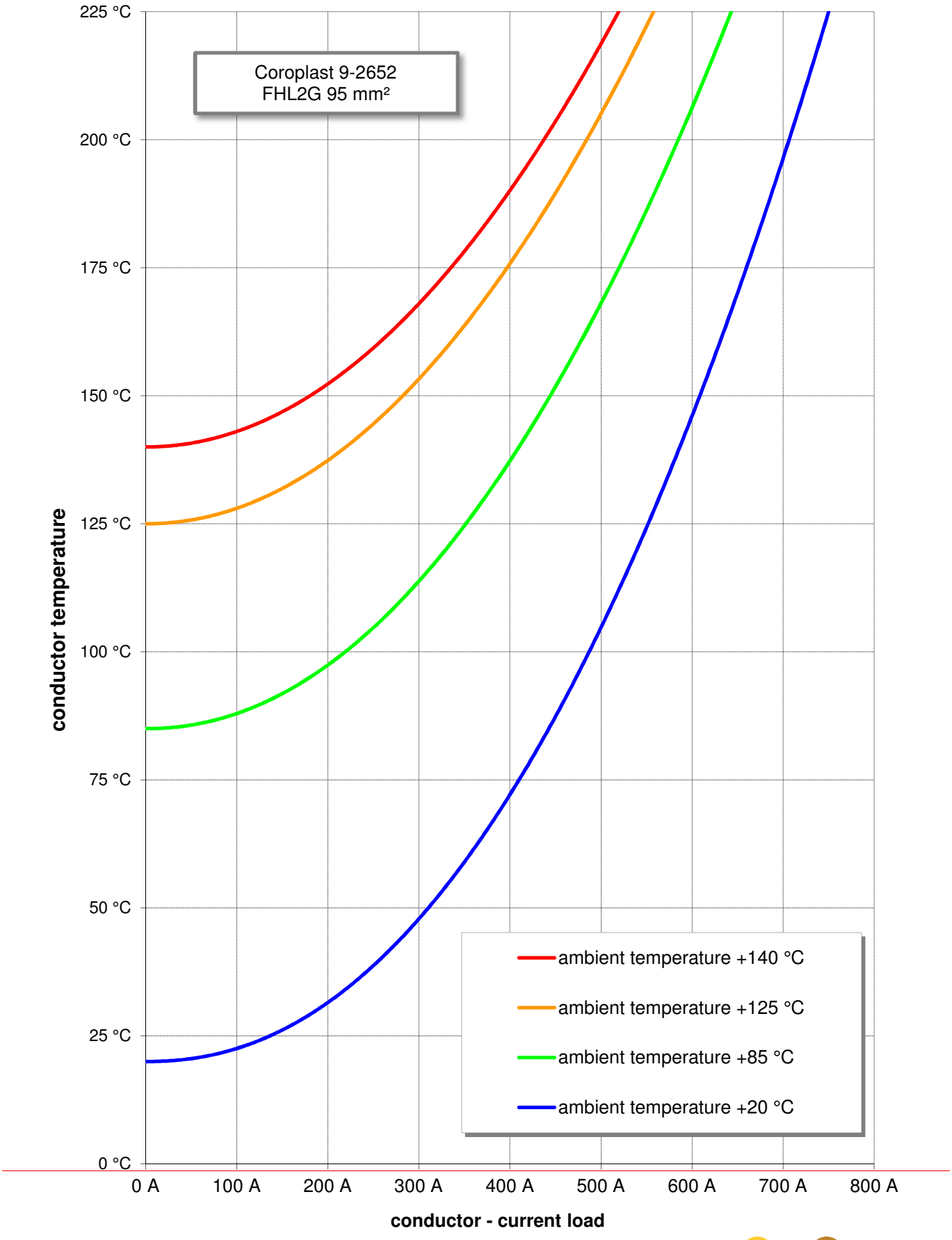


Anhang: Strombelastung, Dauerbestromung bei in Abhängigkeit zur Umgebungstemperatur
Rechnerische Ermittlung gemäß LV112-3 (Entwurf Mai 2009)



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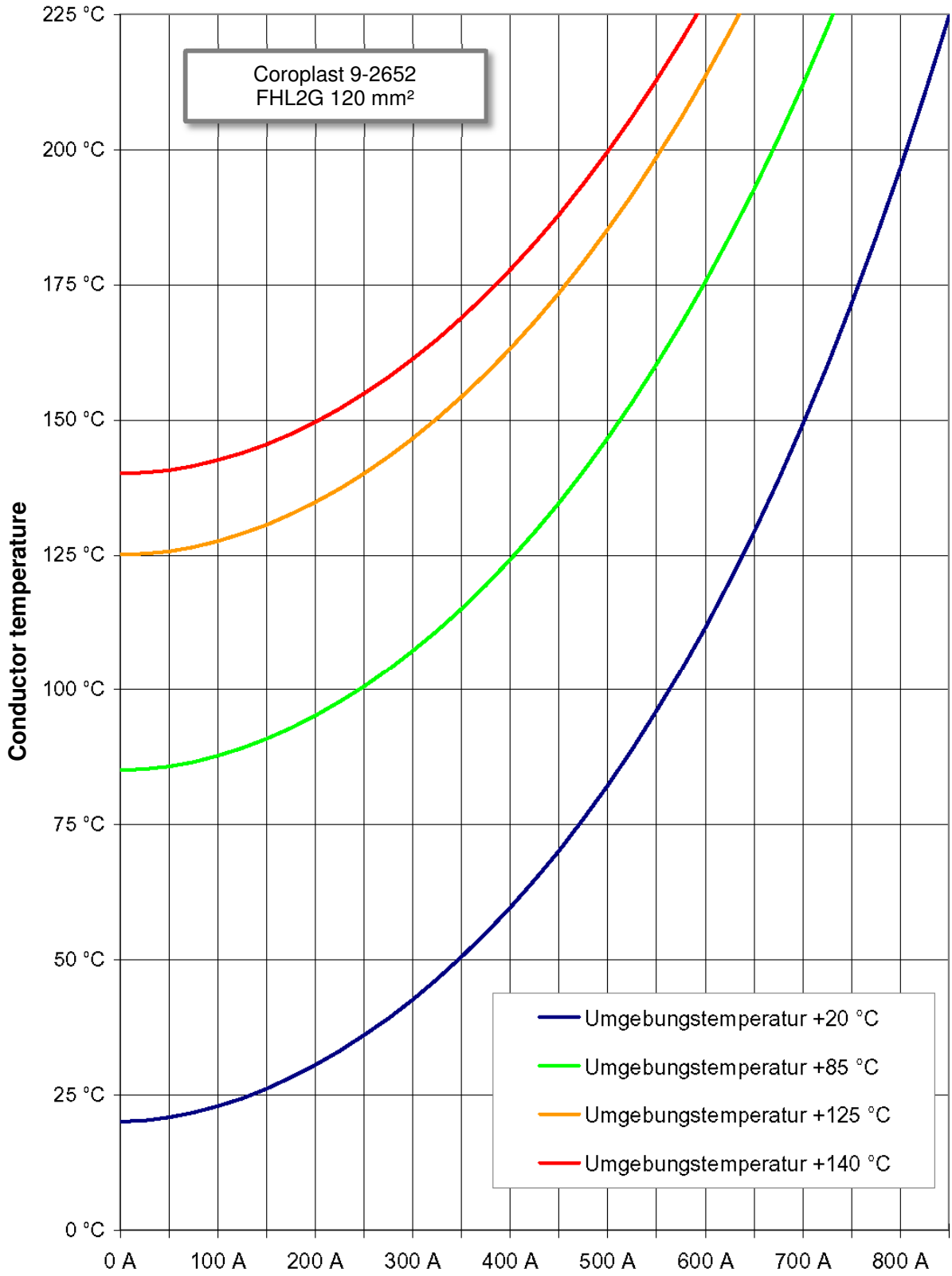

Conductor - current load