

0	1	2	3	4	5	6	7	8	9
<div><div><div>HUG ENGINEERING Im Geren 14 8352 Elsau Schweiz  Tel.: +41 (0)52 368 20 20 Fax: +41 (0)52 368 20 10</div><div><i>hugengineering.</i></div></div><div><div>Electrical Diagram</div><div><div>Equipment : Compressor CA20.1P.230</div><div>El. Diagram Number : CA20.1P.230_V122</div><div><div>Responsible : DOFR</div><div>Power Supply : 230VAC / total FLA 3.9A</div></div><div><div>Last Modification : 13.Mär.2015</div><div>Power Supply Line : L + N + PE / 1.5mm2 / AWG14</div></div><div><div>Last Modified by : DOF</div><div>Control Voltage : 24VDC</div></div><div><div>Last Page : 20</div><div>72W Power Supply NEC CLASS 2</div></div><div>Number of Pages : 7</div></div><div><div>Location : A-11436 / 200932 / 31285 CPL Politecnico di Milano</div><div>Installation : external safety device 10A</div></div></div></div>									

2									
			Urspr.	13. Nov. 2007	Compressor CA20.1P.230		Cover Sheet		CA20_1P_230_V122
			Bearb.	06. Aug. 2014					=
			Name	DOFR					+
Änderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.	<i>hugengineering.</i>	
								B1.	1
								20 B1.	

0	1	2	3	4	5	6	7	8	9
Page	Page Title	Date	Drawn						
1	Cover Sheet	06. Aug. 2014	DOFR						
2	Page Index	31. Okt. 2014	DOFR						
4	Options and Variants	05. Aug. 2014	DOFR						
5	Information Wire	05. Aug. 2014	DOFR						
6	Terminalblocks	06. Aug. 2014	DOFR						
10	Wiring	31. Okt. 2014	DOFR						
20	Cable Plan	31. Okt. 2014	DOFR						

0	1	2	3	4	5	6	7	8	9
System: CA20.1P.230.01					Editor: SEES				
Project Nr. A-11436					Date: 16.03.2015				
CA20-Options / CA20-Optionen									
<div><input type="checkbox"/> .u1<ul style="list-style-type: none"><li>UL 508A</li><li>marking of individual wires</li><li>NEMA 4X cable gland</li><li>AWG cable / lace</li><li>Bezeichnung aller Kabel im Schrank</li><li>NEMA 4X Kabelverschraubungen</li><li>AWG Kabel / Litzen</li></ul></div>									
25									
			Urspr.	13. Nov. 2007	Compressor CA20.1P.230		Options and Variants		CA20_1P_230_V122
			Bearb.	05. Aug. 2014					=
			Name	DOFR					+
Anderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.		
								hugengineering.	
								B1. 4	
								20 B1.	

Wire colour definition main circuit	
green-yellow	: protective earth / ground
black	: load circuit AC
light blue	: neutral AC
Wire colour definition control circuit	
violet	: control voltage 24VDC
dark blue	: control voltage 0VDC
white	: analogue signal
orange	: external voltage

Definierte Litzenfarbe Hauptstromkreis	
grün-gelb	: Schutzleiter / Erde
schwarz	: Laststromkreis AC
hellblau	: Neutralleiter AC

Definierte Litzenfarbe Steuerstromkreis	
violett	: Steuerspannung 24VDC
dunkelblau	: Steuerspannung 0VDC
weiss	: Analogsignal
orange	: Fremdspannung

Wire size of main circuit	
Minimum size <=13A	: 1.5mm <sup>2</sup> ( AWG16)
<=16A	: 2.5mm <sup>2</sup> ( AWG14)
<=20A	: 4mm <sup>2</sup> ( AWG12)
<=25A	: 6mm <sup>2</sup> ( AWG10)
<=40A	: 10mm <sup>2</sup> ( AWG8)
<=63A	: 16mm <sup>2</sup> ( AWG6)
Wire size of control circuits	
Minimum size	: 0.5mm <sup>2</sup> ( AWG20)
Analogue +/- 0..10V/0..20mA	: 0.5mm <sup>2</sup> ( AWG20)

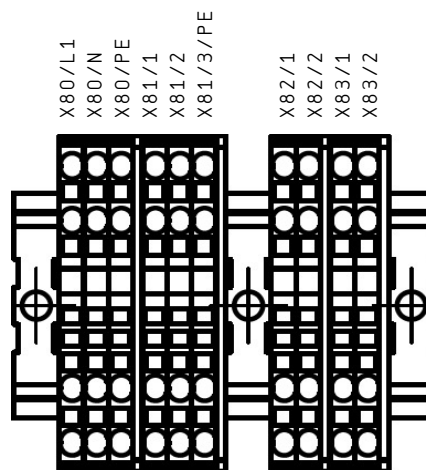
Leiterquerschnitt Hauptstromkreis	
Minimum Querschnitt <=13A	: 1.5mm <sup>2</sup> ( AWG16)
<=16A	: 2.5mm <sup>2</sup> ( AWG14)
<=20A	: 4mm <sup>2</sup> ( AWG12)
<=25A	: 6mm <sup>2</sup> ( AWG10)
<=40A	: 10mm <sup>2</sup> ( AWG8)
<=63A	: 16mm <sup>2</sup> ( AWG6)
Leiterquerschnitt Steuerstromkreis	
Minimum Querschnitt	: 0.5mm <sup>2</sup> ( AWG20)
Analog +/- 0..10V/ 4..20mA	: 0.5mm <sup>2</sup> ( AWG20)

## Terminalblocks

X80 230VAC Terminal / Feed in  
 X81 230VAC Terminal / Compressor  
 X82 24VDC Terminal / Compressor start  
 X83 24VDC Terminal / Compressor ok

## Klemmenleisten

X80 230VAC Klemmen / Einspeisung  
 X81 230VAC Klemmen / Kompressor  
 X82 24VDC Klemmen / Kompressor start  
 X83 24VDC Klemmen / Kompressor ok



			Urspr.	13. Nov. 2007	Compressor CA20.1P.230			Terminalblocks		CA20_1P_230_V122	=	
			Bearb.	06. Aug. 2014							+	
			Name	DOFR								B1. 6
Anderung	Datum	Name	Norm		Urspr.	Ers. f.	Ers. d.			<b>hugengineering.</b>		20 B1.



