



Hydra Specma
Bækgårdsvej 36
6900 Skjern
ATT.

302166 - Potmeter PVG32 B-ret.

Order no: 166779 Date: 09-01-2024 Init: JOS File name: 302166 - Potmeter PVG32 B-ret_V1

WARNING: PROPRIETARY AND CONFIDENTIAL INFORMATION. This document and the information set forth herein (the "Information") are confidential and proprietary to PRO Elteknik A/S, constitute trade secrets and derive independent economic value, actual or potential, from not being generally known. In consideration of you receiving this document you agree (I) to keep the Information secret, (II) only to use the Information for your own needs to accomplish the task(s) agreed with PRO Elteknik A/S. (III) not to disclose any part of the Information to any third party and (VI) not to make copies or reproductions thereof by whatsoever means.

I forbindelse med denne dokumentaion er der følgende bemærkninger:

El symboler:
Alle symboler i dokumentationen er valgt fra standarden DS/EN 60617

Referencer og henvisninger:
Alle bogstavkoder i referencebetegnelser er efter tabel 1 i standarden DS/EN 61346-2

Tekster og stregtykkelser efter DS/EN 61082-1
Alle tekster er tegnet elektronisk med højder der er 10 gange større end tekstens stregtykkelse.
Dette forhold kan se anderledes ud afhængig af skærmens - / printerens opløsning.

Anvendte referencebetegnelser, se nedenfor
Side strømvej henvisning:
Symboler der refererer til et hoved symbol med samme symbol navn, har referencen angivet i parentes placeret over symbolnavnet.
F.eks.: (11/4) - betyder side 11 , strømvej 4

Strømveje
Der er benyttet referencekoordinat net (strømveje) på hver side. Strømvejsnummer er placeret under kredsskemaet med 50 mm afstand mellem hvert nummer.

Sidehenvisninger:
Forbindelseslinier der kommer og eller fortsætter til anden side har oplyst sidehenvisningen ved forbindelsesliniens endepunkt.
F.eks.: Side 12

De streger der er anvendt følger de anbefalede stregtykkelser. Stregerne er elektronisk korrekte, men kan se anderledes ud afhængig af skærmens og printerens opløsning

In the context of this supporting docu for the following comments:

Electrical symbols:
All symbols in the documentation is selected from the standard DS / EN 60617

References and links:
All letter codes in reference designations in Table 1 of the standard DS / EN 61346-2

Texts and line widths according to DS / EN 61082-1
All texts are drawn electronically with heights that are 10 times larger than the text line width.
This ratio may differ depending on the screen - / resolution of the printer.

Used reference designations, see below
Page current path reference:
Symbols referring to a main symbol with the same symbol name, the reference shown in brackets located above the symbol name.
For example.: (11/4) - means page 11, current path 4

Current Flow
There used referencekoordinat network (flow paths) on each side. Path number is located under circuit diagram with 50 mm spacing between each number.

Page references:
Connection lines that come and or continue to another page the property page reference by the joint line end point.
For example.: Page 12

The stresses applied follows the recommended line weights. The lines are electronically correct, but may look different depending on the monitor and the printer's resolution

INTERNE LEDERE I TAVLEN

230VAC FASE	Sort
230VAC NUL	Lyseblå
AC STYRESPÆNDING +	Rød
AC STYRESPÆNDING -	Rød med hvid streg
DC STYRESPÆNDING +	Mørkeblå
DC STYRESPÆNDING -	Mørkeblå med hvid streg
FREM.SP/TVANGSKOBL.	Orange

FARVEKODER LIYY/LIYCY KABLER

1. sort	26. gul/sort
2. blå	27. grøn/sort
3. brun	28. violet/sort
4. beige	29. hvid/sort
5. gul	30. orange/sort
6. grøn	31. brun/sort
7. violet	32. rød/grøn
8. rosa	33. grå/grøn
9. orange	34. violet/grøn
10. transparant	35. hvid/grøn
11. rød/hvid	36. orange/grøn
12. blå/hvid	37. brun/grøn
13. gul/hvid	38. rød/gul
14. grøn/hvid	39. blå/gul
15. violet/hvid	40. violet/gul
16. orange/hvid	41. hvid/gul
17. brun/hvid	42. brun/gul
18. blå/rød	43. rød/blå
19. gul/rød	44. hvid/blå
20. grøn/rød	45. orange/blå
21. hvid/rød	46. brun/blå
22. orange/rød	47. gul/violet
23. brun/rød	48. grøn/violet
24. rød/sort	49. hvid/violet
25. blå/sort	50. orange/violet

INTERNAL WIRES IN SWITCHBOARD

230VAC PHASE	Black
230VAC ZERO	Light Blue
AC SUPLY +	Red
AC SUPLY -	Red with white line
DC SUPLY +	Dark blue
DC SUPLY -	Dark blue with white line
FORCED CONTROL CIRCUIT / FORCED COUPLING.	Orange

COLOR CODES LIYY / LIYCY CABLES

1. black	26. yellow / black
2. blue	27. green / black
3. brown	28. purple / black
4. beige	29. white / black
5. yellow	30. orange / black
6. green	31. brown / black
7. violet	32. red / green
8. pink	33. gray / green
9. orange	34. violet / green
10. transparant	35. white / green
11. red / white	36. orange / green
12. blue / white	37. brown / green
13. yellow / white	38. red / yellow
14. green / white	39. blue / yellow
15. violet / white	40. violet / yellow
16. orange / white	41. white / yellow
17. brown / white	42. brown / yellow
18. blue / red	43. red / blue
19. yellow / red	44. white / blue
20. green / red	45. orange / blue
21. white / red	46. brown / blue
22. orange / red	47. yellow / violet
23. brown / red	48. green / violet
24. red / black	49. white / violet
25. blue / black	50. orange / purple



CUSTOMER : Hydra Specma

302166 - Potmeter PVG32 B-ret.

PROJEKT COLOR CODES

Order no:
166779

Date:
09-01-2024

Rev:
08-07-2024

Project name:
302166 - Potmeter PVG32 B-ret_V1

Function:

Location:

Init:
JOS

No. of pages:
5

Page:
3

Next page:
4

COMPONENT DECLARATION

The low-voltage switchgear and controlgear assembly has been designed according to the following harmonized standards in relation to annex 1 of the Machine directive

EN 60 439-1 Type-tested and partially type-tested assemblies with corrigendum

EN 60 204-1 Electrical equipment of machines

DS/EN 13850 Emergency stop
DS/EN 13849-1 Safety elements of control systems

These standards are only in use as far as it is of relevance in relation to the actual "low-voltage switchgear and controlgear assemblies"

It is prohibited to use the product until the machine, into witch the above-mentioned low-voltage switchgear and controlgear assembly is incorporated as a whole is declared in accordance with all relevant regulations of the Machine directive (2006/95/EEC with subsequent revisions). It further applies that use is prohibited before other current directives including 2006/95/EEC (low-voltage directive) and 2004/108/EEC (EMC directive) for the whole machine have been met and this has been confirmed by the CE-mark of the machine

Product 302166 - Potmeter PVG32 B-ret.

Manufactured by Pro Elteknik

Pro Elteknik project No: 166779

Customer project No:

We hereby declare that the low-voltage switchgear and controlgear assemblies with our abovementioned project number are exclusively designed to have control functions related to the components mentioned in the draft for the customer project number

The low-voltage switchgear and controlgear assembly of the type mentioned above must thus be incorporated into and/or assembled with other machine parts included in the Machine directive June 5th 2008 (2006/42/EEC) with subsequent revisions - correspondent to National Working Environment Authority's notice 612/2008, chapter 2 - and consequently it does not in its current design meet the regulations of the Machine directive in all respects

The low-voltage switchgear and controlgear assembly conforms to the following directives including subsequent revisions:

2006/95/EEC (Low voltage directive)

2004/108/EEC (EMC directive)

KOMPONENT ERKLÆRING

Lavspændings koblingsudstyr og betjeningsudstyret monteret er designet i overensstemmelse med følgende harmoniserede standarder i hht til bilag 1 i Maskindirektivet

EN 60 439-1 Typeprøvede og delvist typetestede tavler

EN 60 204-1 Elektrisk udstyr på maskiner

DS / EN 13850 Nødstop
DS / EN 13849-1 Sikkerhed elementer af kontrolsystemer

Disse standarder er kun i brug så vidt det er relevant i forhold til selve "lavspændings koblingsudstyr og betjeningsudstyr"

Det er forbudt at bruge ovennævnte produktet før det indtegreret som helhed på maskinen, er erklæret i overensstemmelse med alle relevante bestemmelser i maskindirektivet (2006/95/EF med senere revisioner). Det gælder endvidere, at brugen er forbudt inden andre gældende direktiver herunder 2006/95/EF (lav spænding direktiv) og 2004/108/EF (EMC direktiv) for hele maskinen er blevet opfyldt, og dette er blevet bekræftet af CE-mærket på maskinen

Produkt 302166 - Potmeter PVG32 B-ret.

Fabrikeret af Pro Elteknik

Pro Elteknik projekt nr: 166779

Kunde projekt nr:

Vi erklærer herved, at lavspændings koblingsudstyr og betjeningsudstyr monteret med vores ovennævnte projekt nummer er udelukkende designet til at have kontrol funktioner i forbindelse med de komponenter, der er nævnt i udkastet for kunden projektnummeret

Den lavspændings koblings-og kontroludstyr samling af nævnte type ovenfor, skal derfor indarbejdes i og / eller samles med andre maskindele indgår i Maskindirektivet 5 juni 2008 (2006/42/EF) med efterfølgende revisioner - korrespondent til Arbejdstilsynet Authoritys notat 612/2008. kapitel 2 - og følgelig er det ikke i sin nuværende design opfyldte reglerne i Maskindirektivet i alle henseender

Lavspændings koblingsudstyret og betjeningsudstyret er monteret i overensstemmelse med følgende direktiver, herunder senere ændringer:

2006/95/EF (lavspændingsdirektivet)

2004/108/EF (EMC-direktivet)



CUSTOMER : Hydra Specma
302166 - Potmeter PVG32 B-ret.

KOMPONENTERKLÆRING DANSK

Order no: 166779		Project name: 302166 - Potmeter PVG32 B-ret_V1		Init: JOS	Page: 5
Date: 09-01-2024	Rev: 08-07-2024	Function:	Location:	No. of pages: 5	Next page:

WARNING: PROPRIETARY AND CONFIDENTIAL INFORMATION. This document and the information set forth herein (the "Information") are confidential and proprietary to Pro Elteknik A/S, constitute trade secrets and derive independent economic value, actual or potential, from not being generally known. In consideration of you receiving this document you agree (I) to keep the information secret, (II) only to use the information for your own needs to accomplish the task(s) agreed with Pro Elteknik, (III) not to disclose any part of the information to any third party and (IV) not to make copies or reproductions thereof whatsoever means.									
List of documents									
Function (=)	Page	Document type	Description					Revision date	
=A01	1	Circuit Diagrams IEC	Supply					24-05-2024	
=A01	2	Circuit Diagrams IEC	VFD_1, Freq. converter 4kW					24-05-2024	
=A01	3	Circuit Diagrams IEC	VFD_2, Freq. converter 4kW					24-05-2024	
=A01	4	Circuit Diagrams IEC	Heater					24-05-2024	
=A01	5	Circuit Diagrams IEC	ICM Pump 0,37kW					24-05-2024	
=A01	6	Circuit Diagrams IEC	Filling Pump 4kW					24-05-2024	
=A01	7	Circuit Diagrams IEC	Power supply					24-05-2024	
=A01	9	Circuit Diagrams IEC	PLC CPU					24-05-2024	
=A01	10	Circuit Diagrams IEC	I/O link Modul & Analog Input					24-05-2024	
=A01	11	Circuit Diagrams IEC	HMI & Network Switch					24-05-2024	
=A01	12	Circuit Diagrams IEC	Level Sensor & Temp Sensor					24-05-2024	
=A01	13	Circuit Diagrams IEC	Press. Sensor & Oils switchs					24-05-2024	
=A01	14	Circuit Diagrams IEC	Cylce Valve					24-05-2024	
=A01	15	Circuit Diagrams IEC	Filling Valve					24-05-2024	
=A01	16	Circuit Diagrams IEC	ICM 1					24-05-2024	
=A01	17	Circuit Diagrams IEC	Filling Valve for Tank					24-05-2024	
	300	Cabinets	Panel Layout - Sides					24-05-2024	
=A01	400	Component list						24-05-2024	
=A01	401	Component list						24-05-2024	
=A01	500	Cable list						24-05-2024	
=A01	501	Cable list						24-05-2024	
=A01	502	Cable list						24-05-2024	
=A01	503	Cable list						24-05-2024	
=A01	600	Cable-Core list						24-05-2024	
=A01	601	Cable-Core list						24-05-2024	
=A01	602	Cable-Core list						24-05-2024	
=A01	603	Cable-Core list						24-05-2024	
=A01	604	Cable-Core list						24-05-2024	
	700	Aspect Functions list						24-05-2024	
	800	Aspect Locations list						24-05-2024	
		CUSTOMER : Hydra Specma 302166 - Potmeter PVG32 B-ret.					File name: 302166 - Potmeter PVG32 B-ret_V1		Init:
							Order no: 166779	Date: 24-05-2024	Rev: 08-07-2024
							Function:	Location:	No. of pages: 1
									Page: 1000
									Next page:

WARNING: PROPRIETARY AND CONFIDENTIAL INFORMATION. This document and the information set forth herein (the "Information") are confidential and proprietary to Pro Elteknik A/S, constitute trade secrets and derive independent economic value, actual or potential, from not being generally known. In consideration of you receiving this document you agree (I) to keep the information secret, (II) only to use the information for your own needs to accomplish the task(s) agreed with Pro Elteknik, (III) not to disclose any part of the information to any third party and (IV) not to make copies or reproductions thereof whatsoever means.

Product list	
--------------	--

[illegible]