

SAFETY PRODUCTS

Connection diagrams

Sentry safety relays



Important information Sentry connection diagrams

The connection diagrams in this document are only general recommendations from ABB. The conditions of a specific application could make alternative connections more suitable.

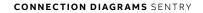
With regards to the stated functional safety levels, they apply under the assumption that the installation complies with all other relevant functional safety requirements in EN ISO 13849-1/-2, such as product selection, product placement, cable installation, environmental effects on the system etc.

ABB does not accept any liability and/or responsibility whatsoever for any errors or lack of information in this document. It is the responsibility of the machine builder to make a risk assessment and make sure the appropriate functional safety levels are achieved.

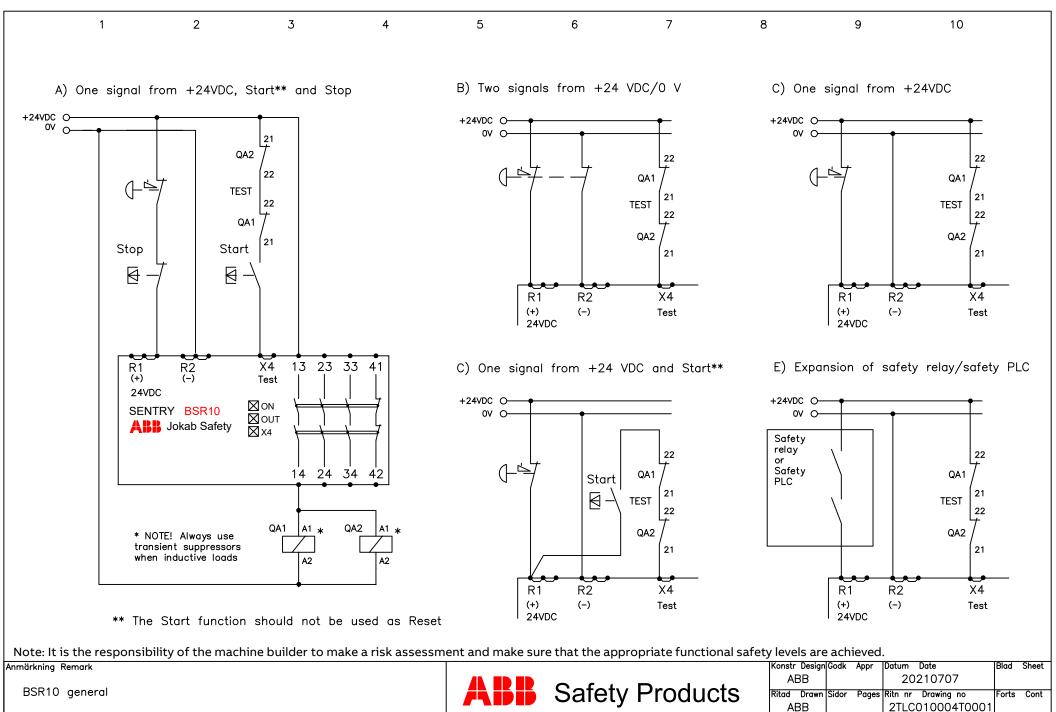
Table of contents

Sentry connection diagrams

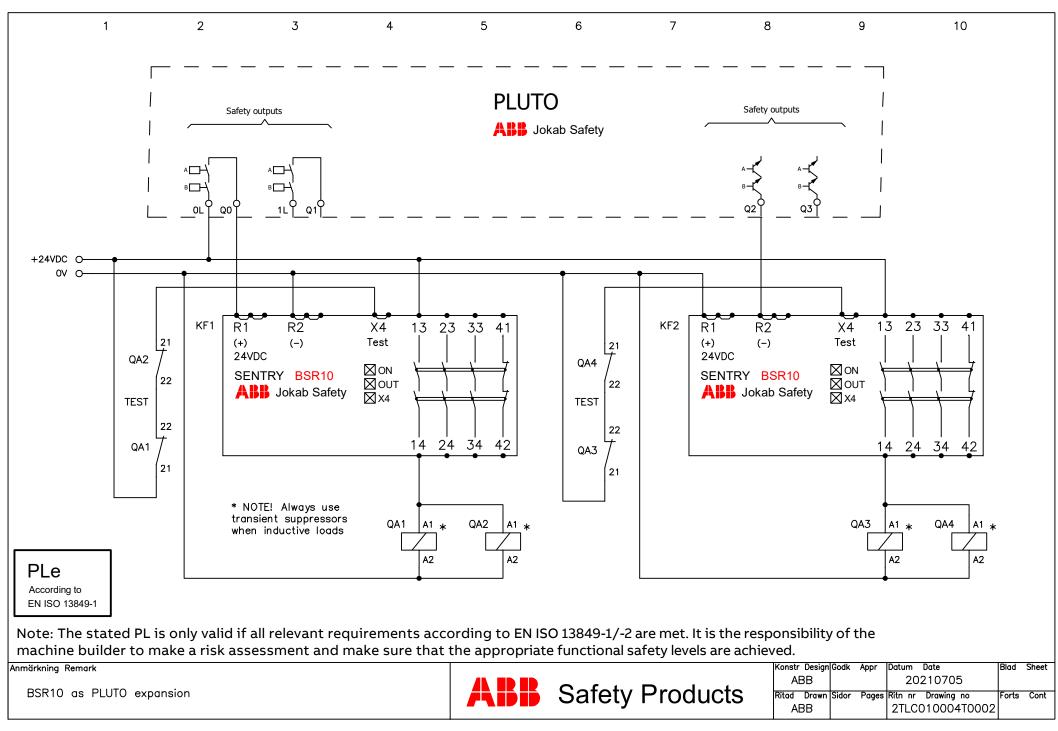
04	PSD10 general	31	SSR20 general
04 05	BSR10 general BSB10 as Plute expansion	32	SSR20 with JSTD25F/H
	BSR10 as Pluto expansion BSR10 with Inca1	33	SSR20 with JSTD25K
06 07		34	SSR20 with JSTD1-A
07	BSR11 general BSR11 as Plute expansion	35	SSR20 with JSHD4-2-AJ-A
08	BSR11 as Pluto expansion	36	SSR20M general
	BSR11/BSR10 as expansion relay	37	SSR20M with JSTD1-A
10	BSR23 general	38	SSR32 general
11	BSR23 to Pluto Q0 and Q2 outputs	39	SSR42 general
12	BSR23 to Pluto Q0 and Q1 outputs	40	TSR10 general
13	BSR23 as expansion relay	41	TSR10 pre-reset
14 15	SSR10 general SSR10 with Smile	42	TSR10 inching
-		43	TSR20 general
16 17	SSR10 with Smile and Reset	44	TSR20M general
	SSR10 with Compact pilot devices	45	USR10 general
18	SSR10 with LneStrong	46	USR10 with Inca1 and Smile EA
19	SSR10 with Eden OSSD	47	USR10 as expansion
20	SSR10 with Magne 4 OSSD SSR10 with Orion3 Extended	48	USR10 with MKey8
21		49	USR10 with MKey9
22	SSR10 with JSHD4-2-AB	50	USR10 with Sense7
23	SSR10 with JSHD4-2-AL	51	USR10 multi-reset
24	SSR10/USR10 with HD5-S-104 and -102	52	USR10 3-phase connection
25	SSR10/USR10 with HD5-S-111	53	USR10 with bumper
26	SSR10 with bypass from a JSHD4	54	USR10 with safety mat
27	SSR10 with time limited bypass	55	USR10 with safety edge
28	SSR10 expansion TSR10	56	USR10 with JSTD25F/H
29	SSR10 expansion BSR11	57	USR22 general
30	SSR10M general		5

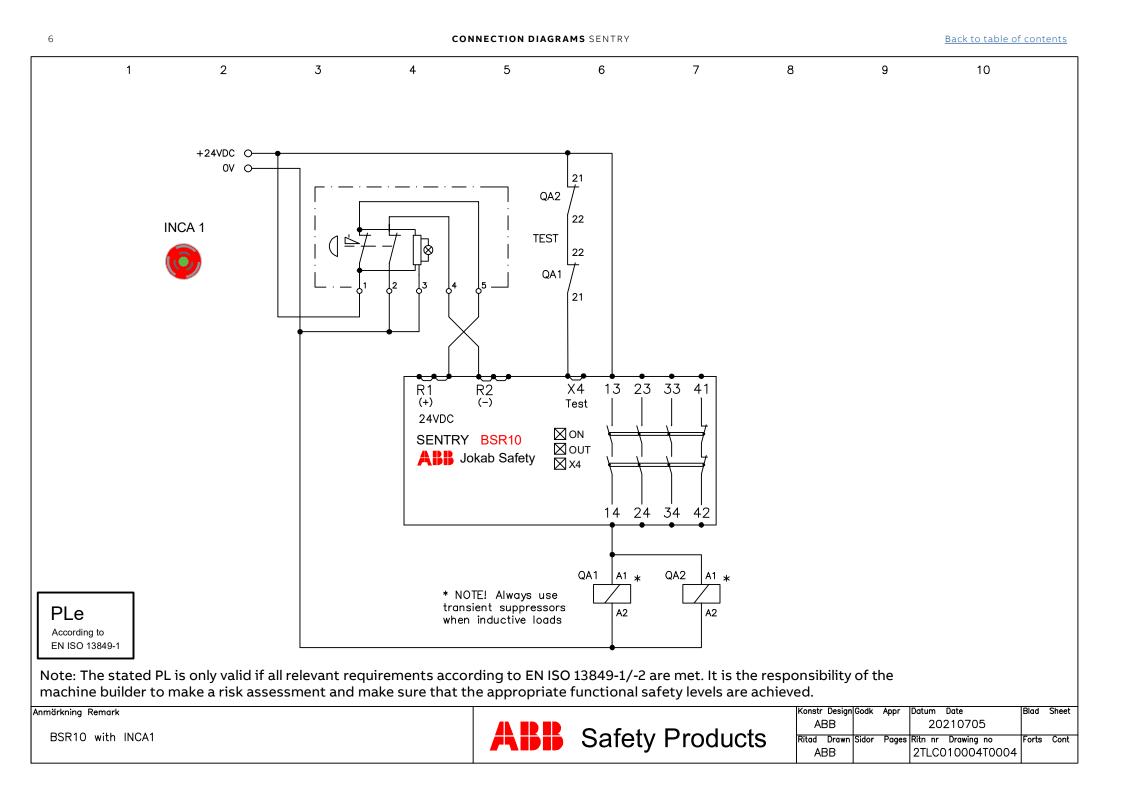


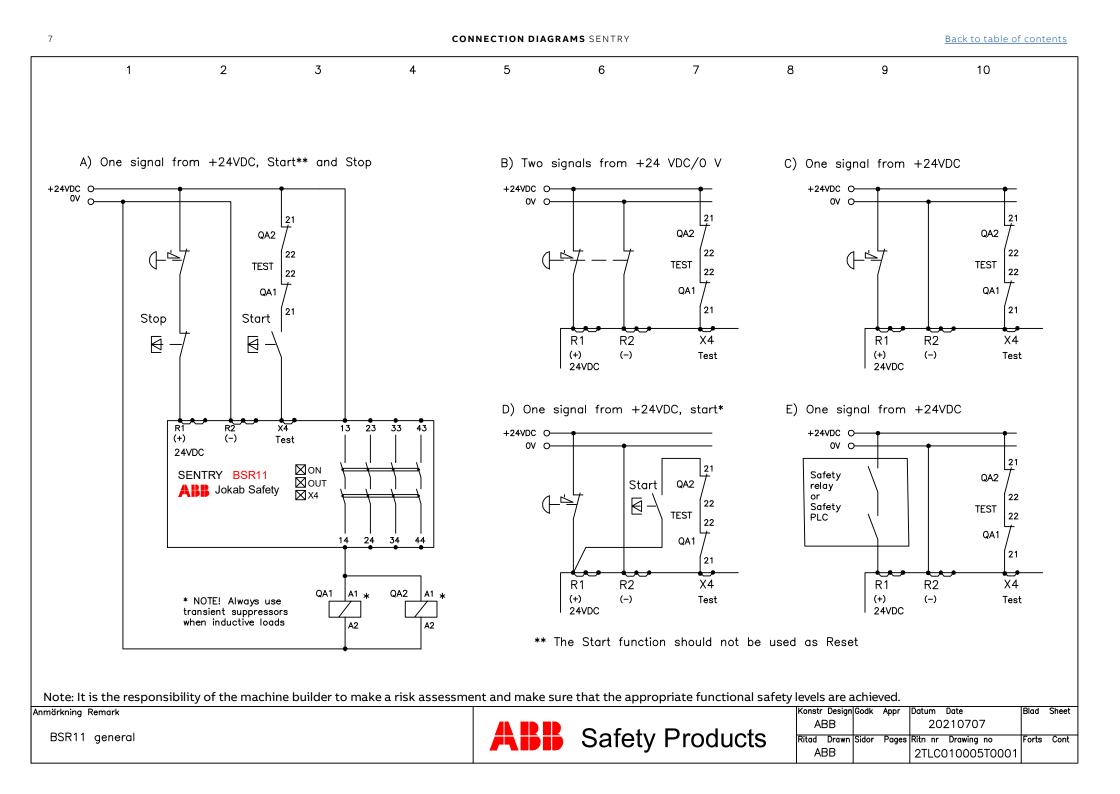
4



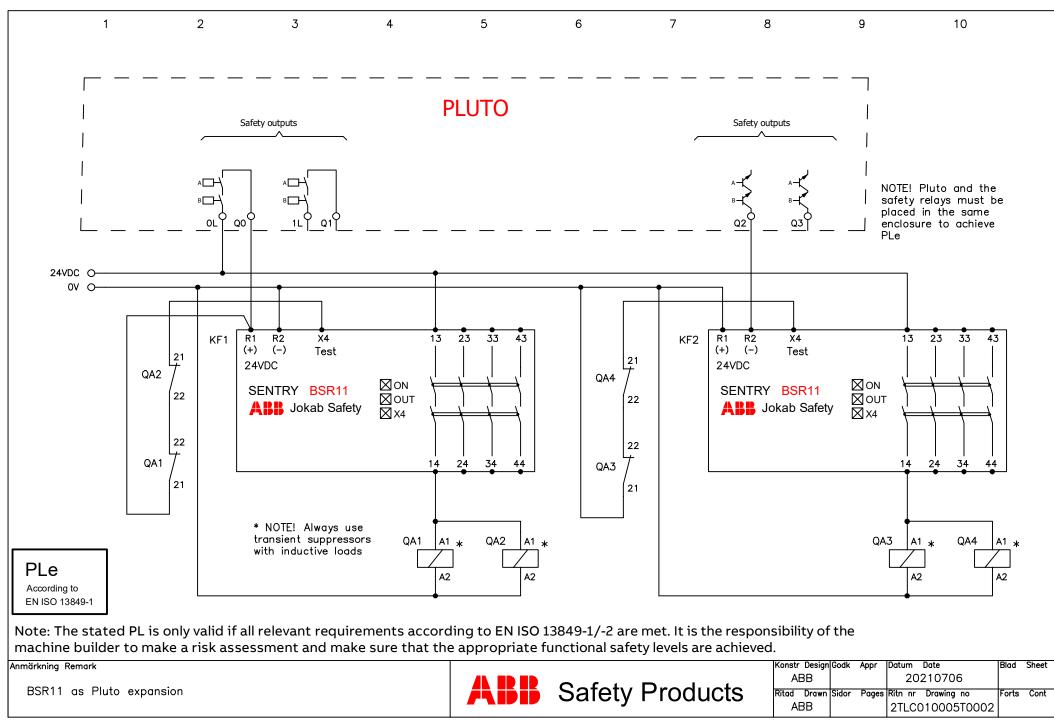
Back to table of contents

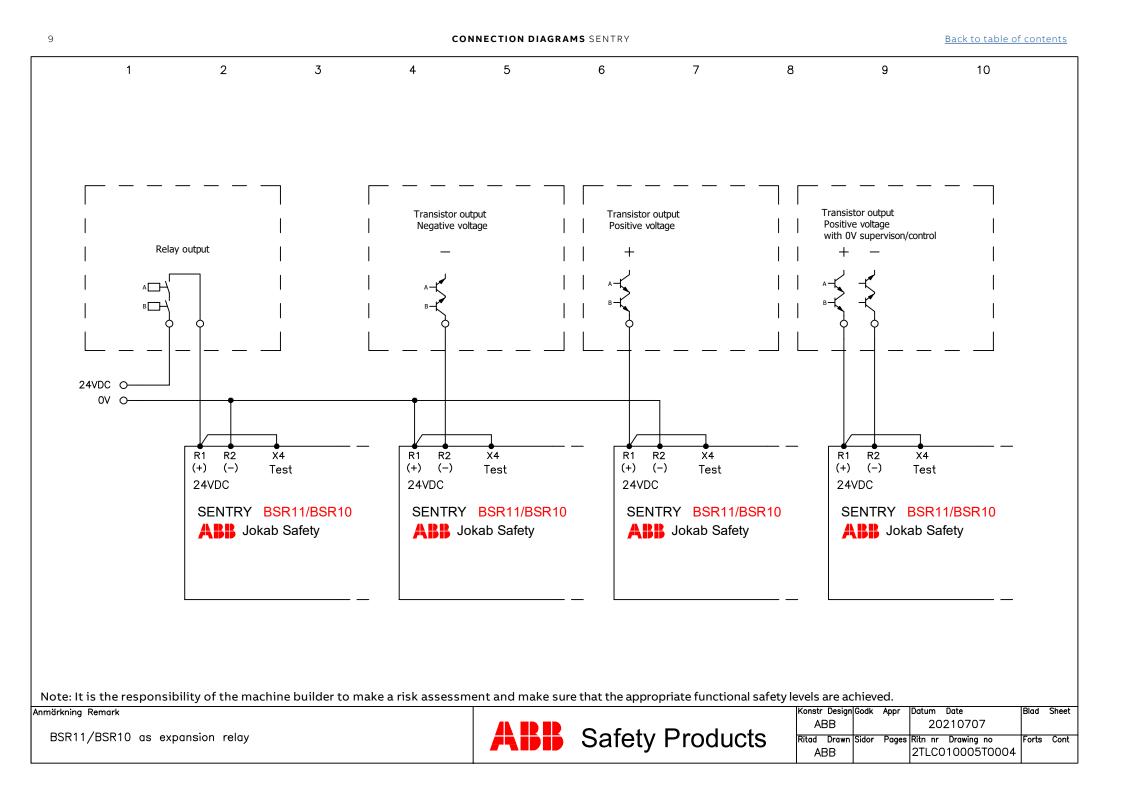


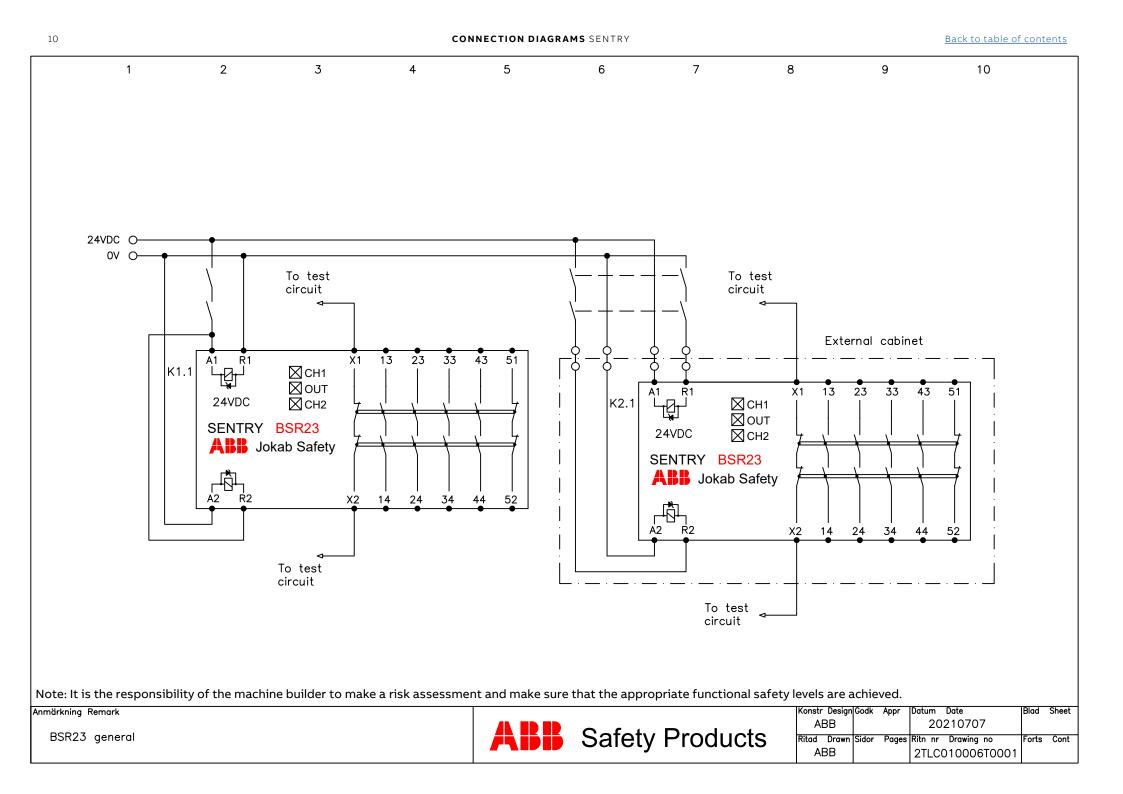




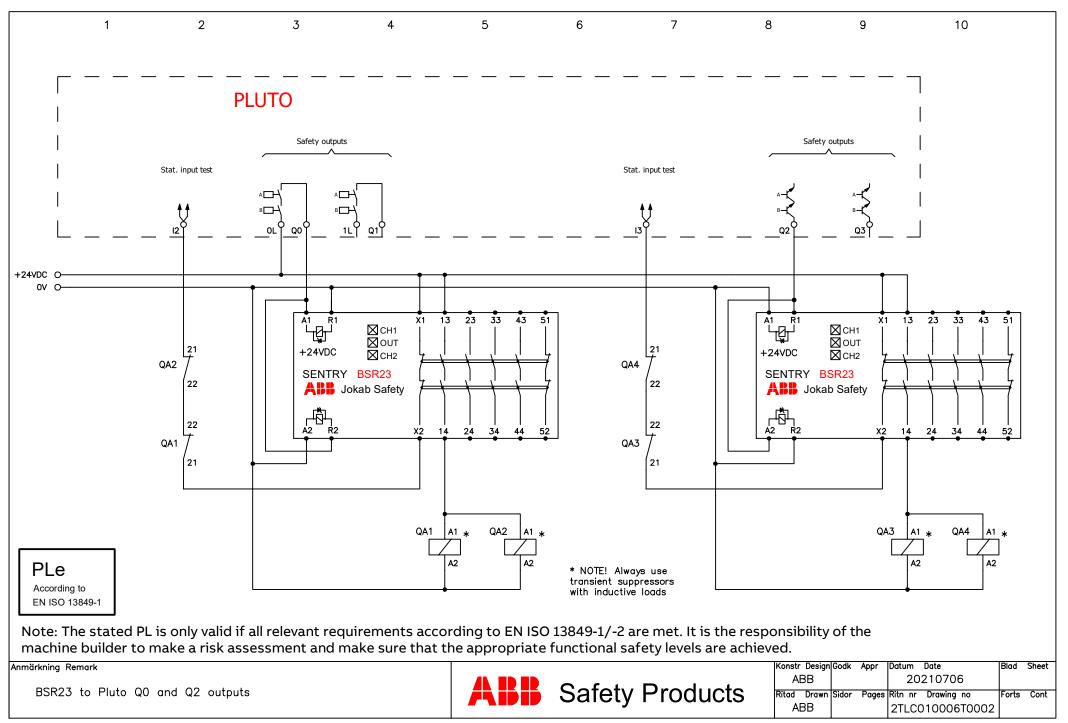
Back to table of contents

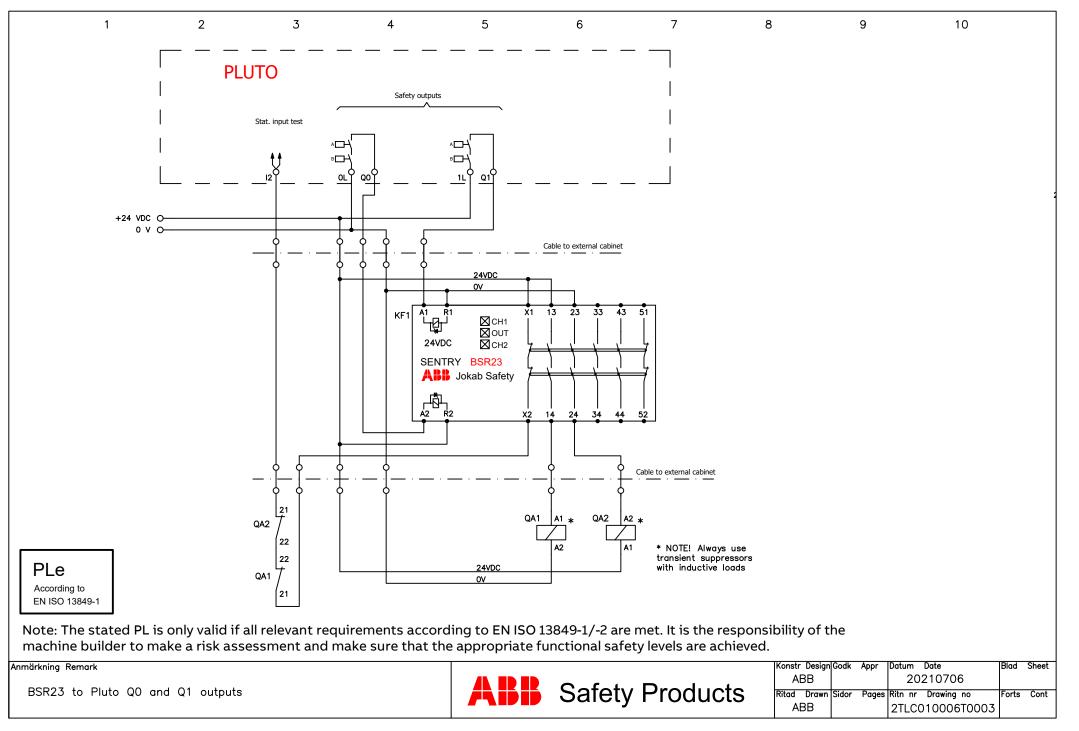


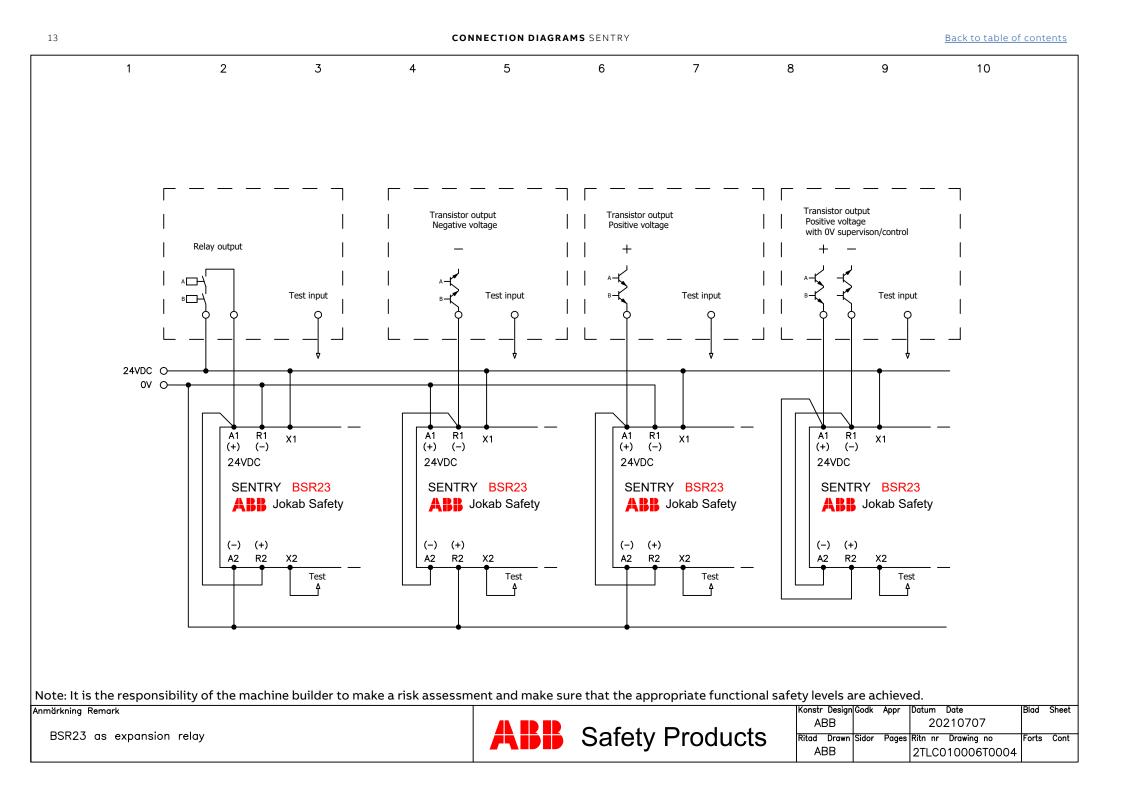


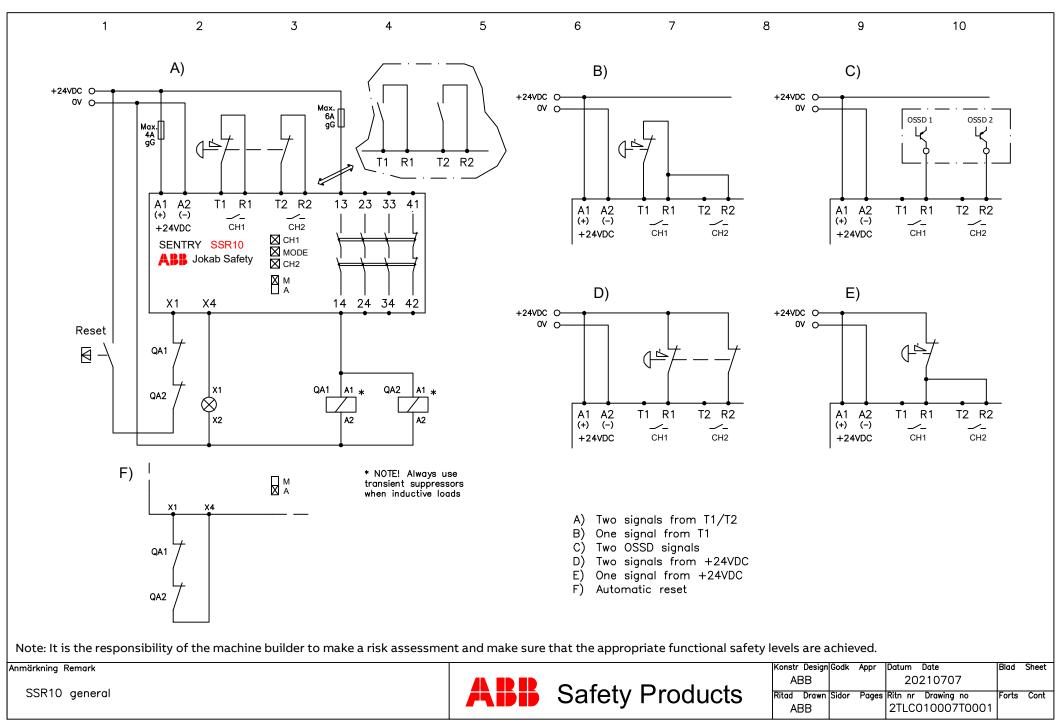


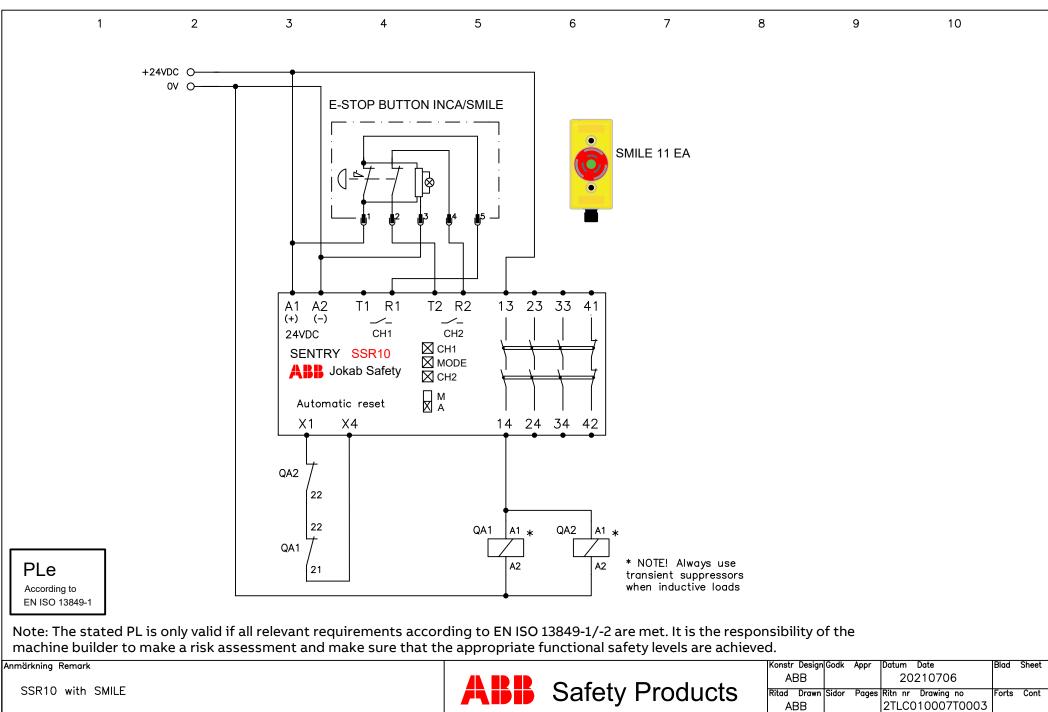






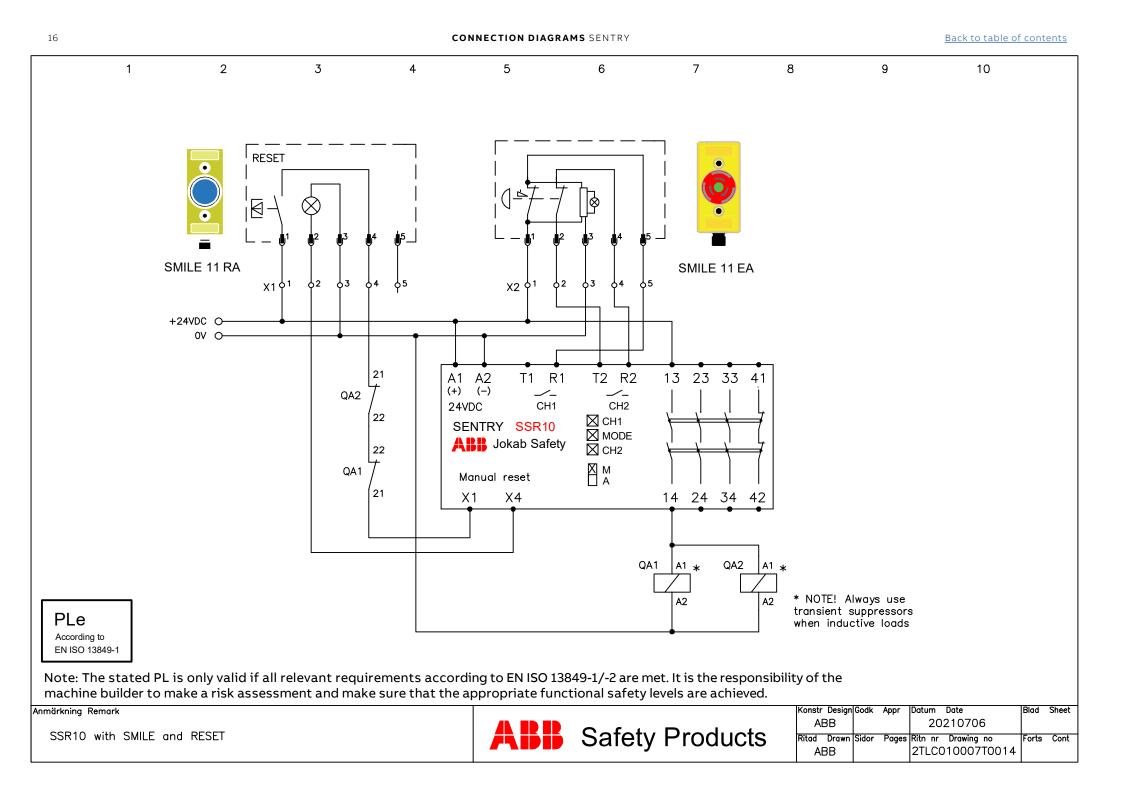


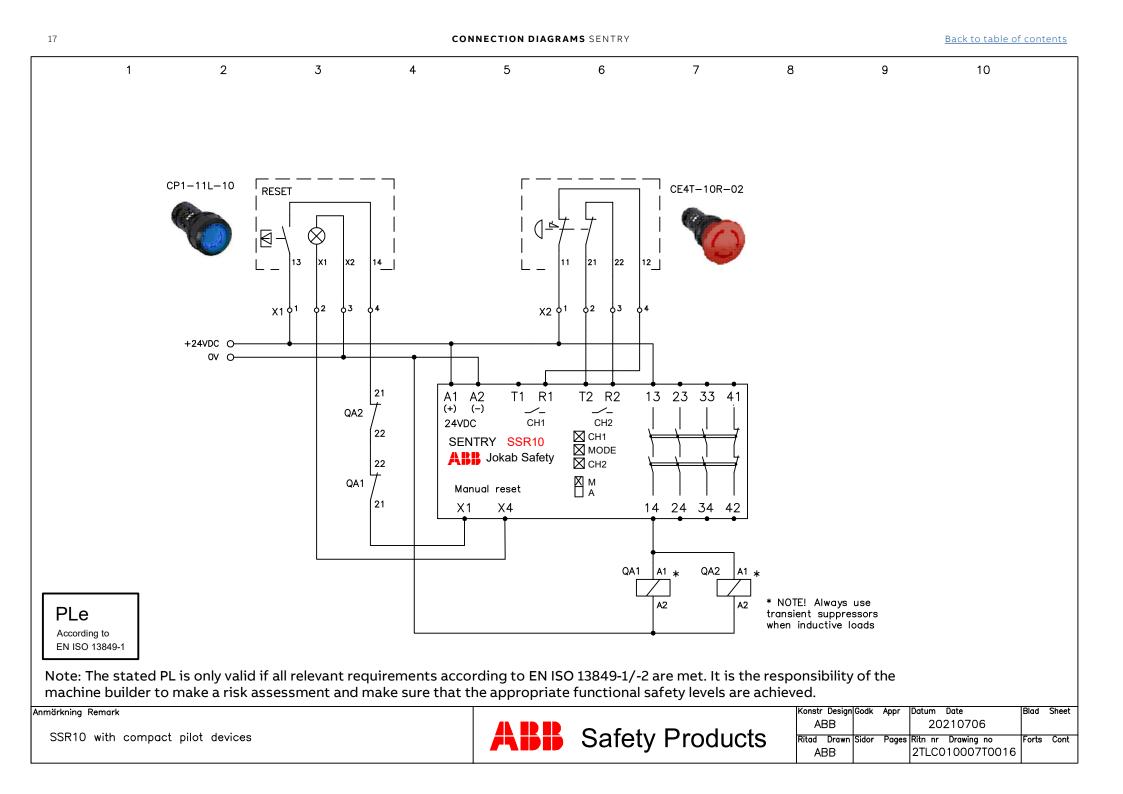


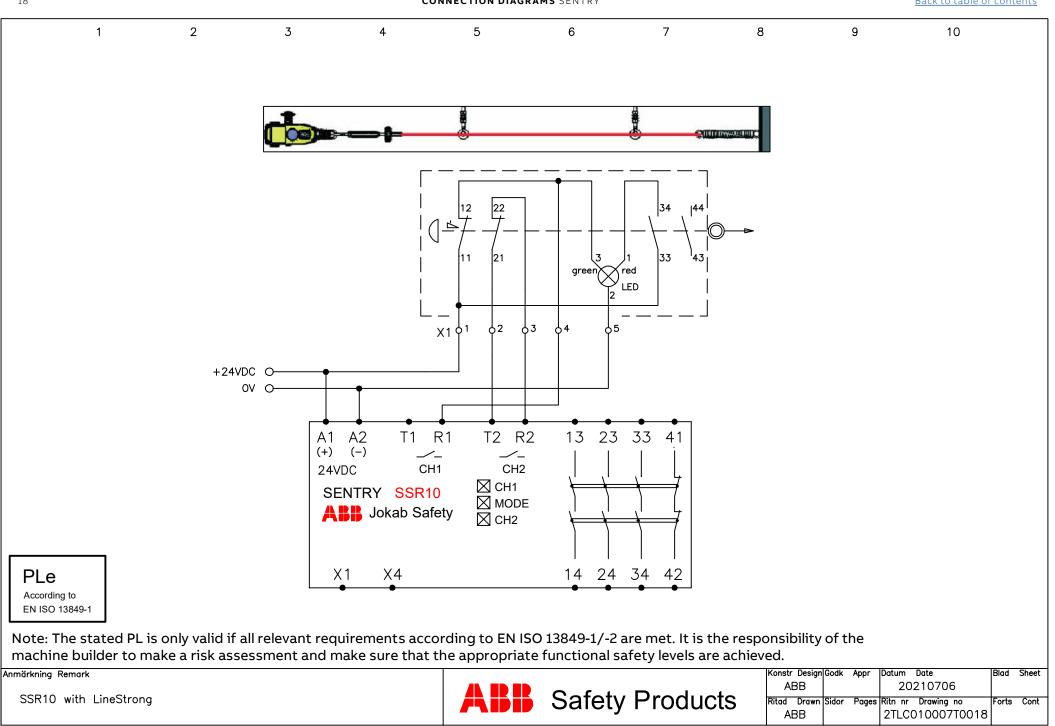


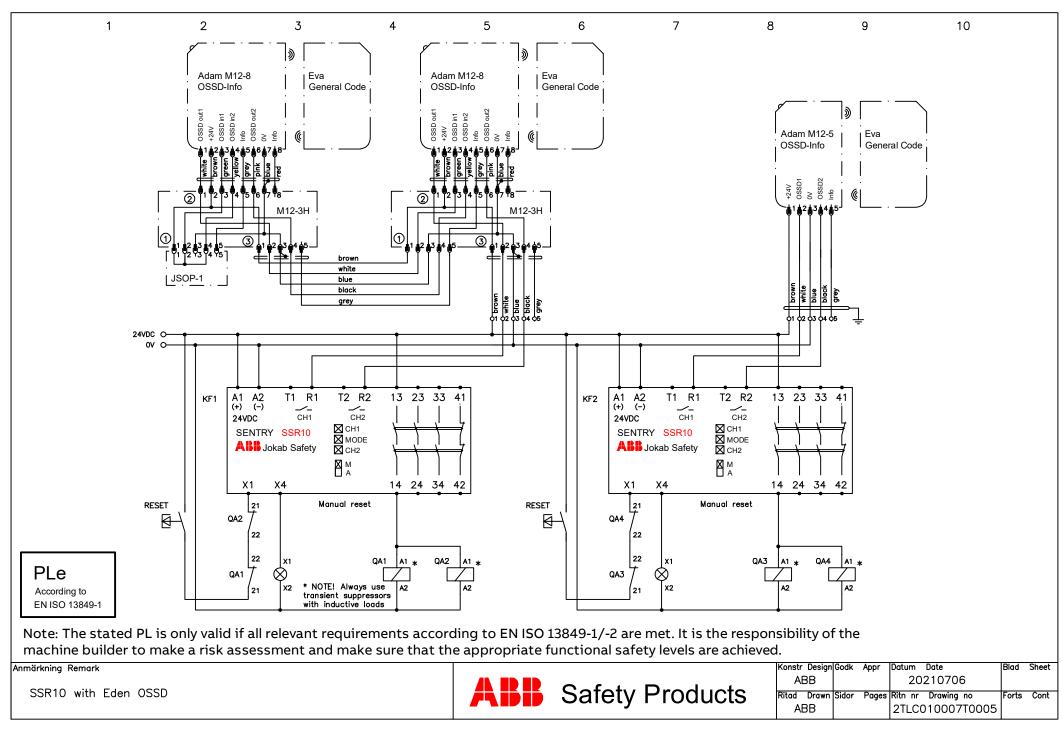
CONNECTION DIAGRAMS SENTRY

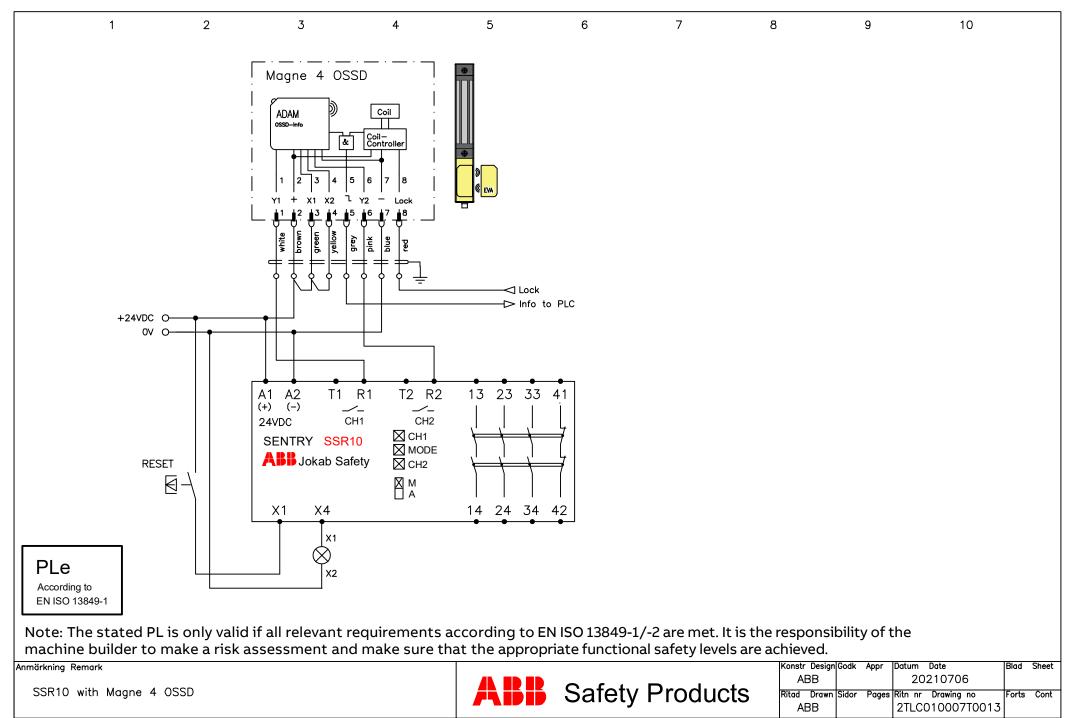
Back to table of contents

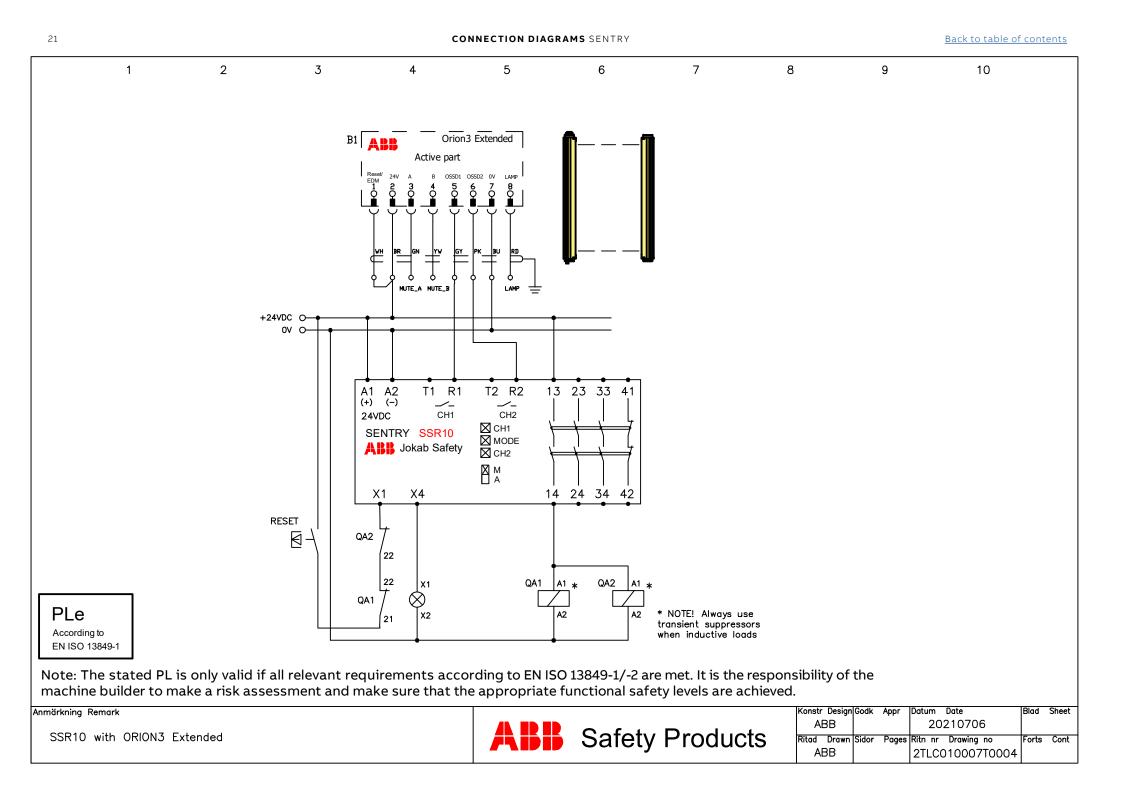


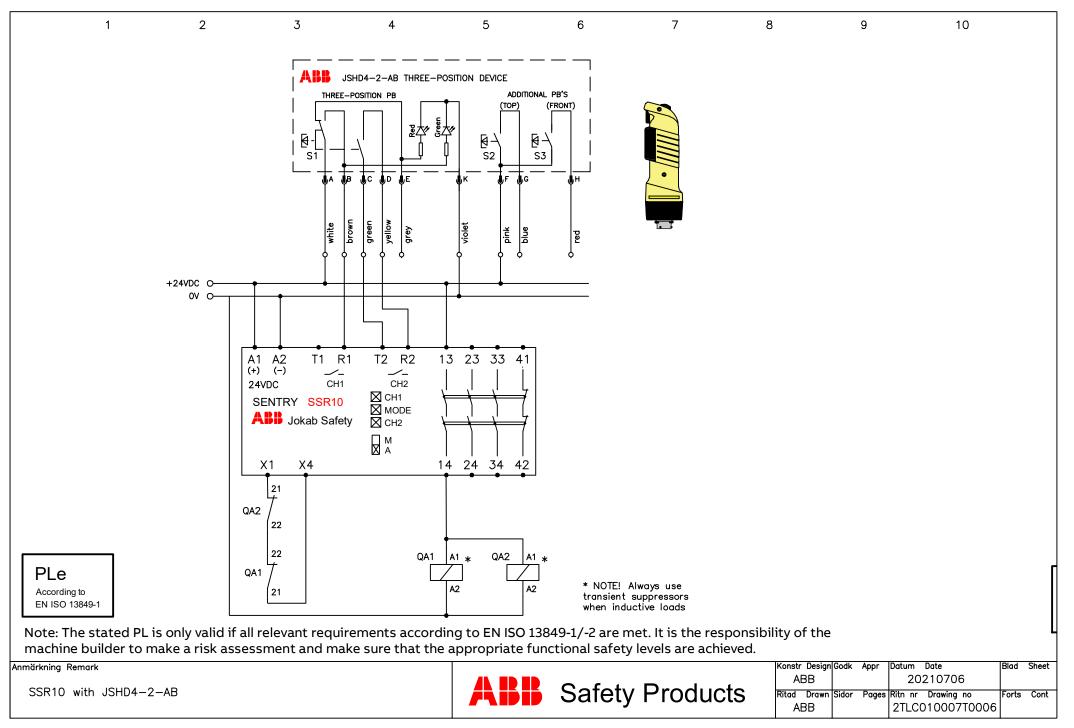




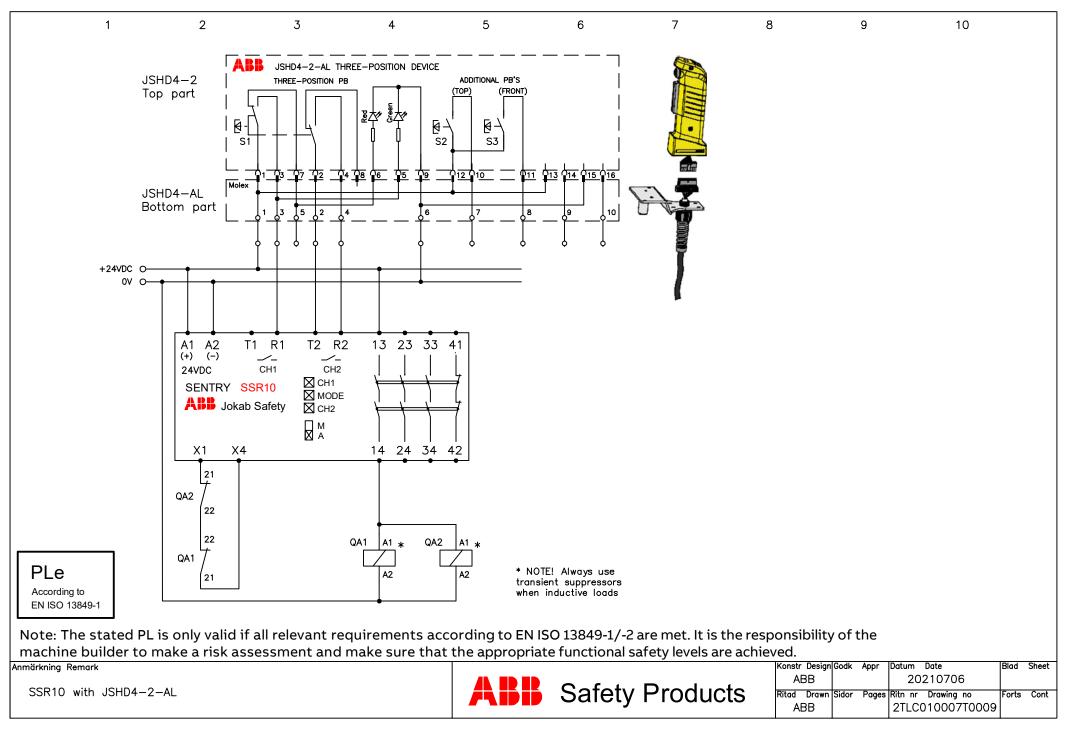




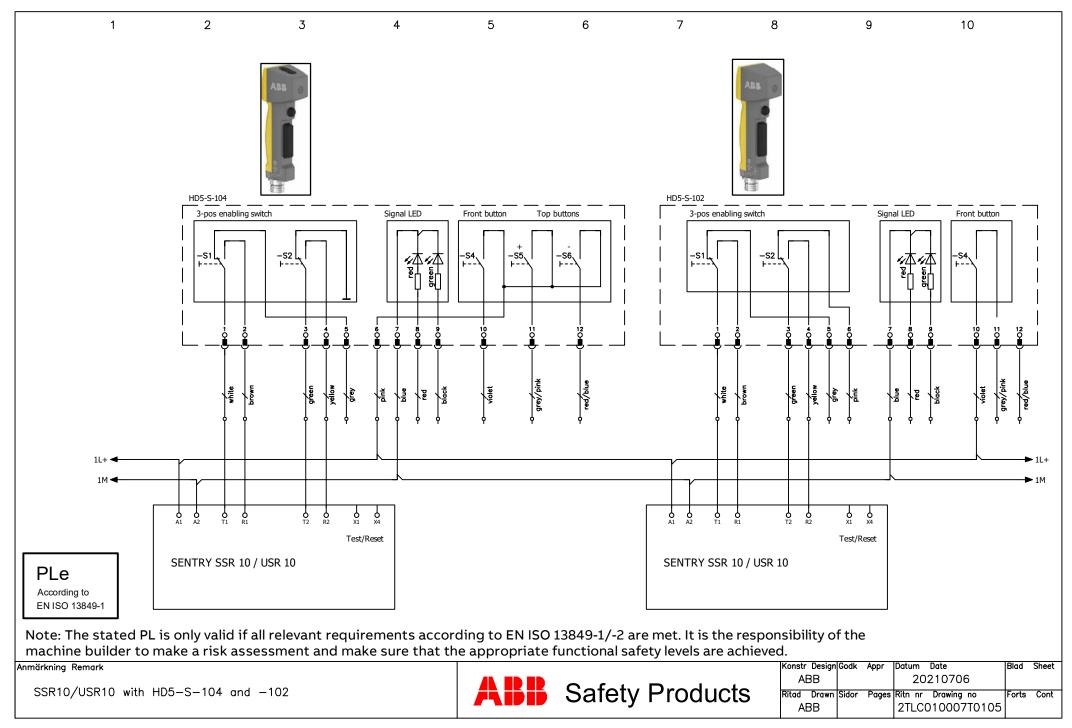


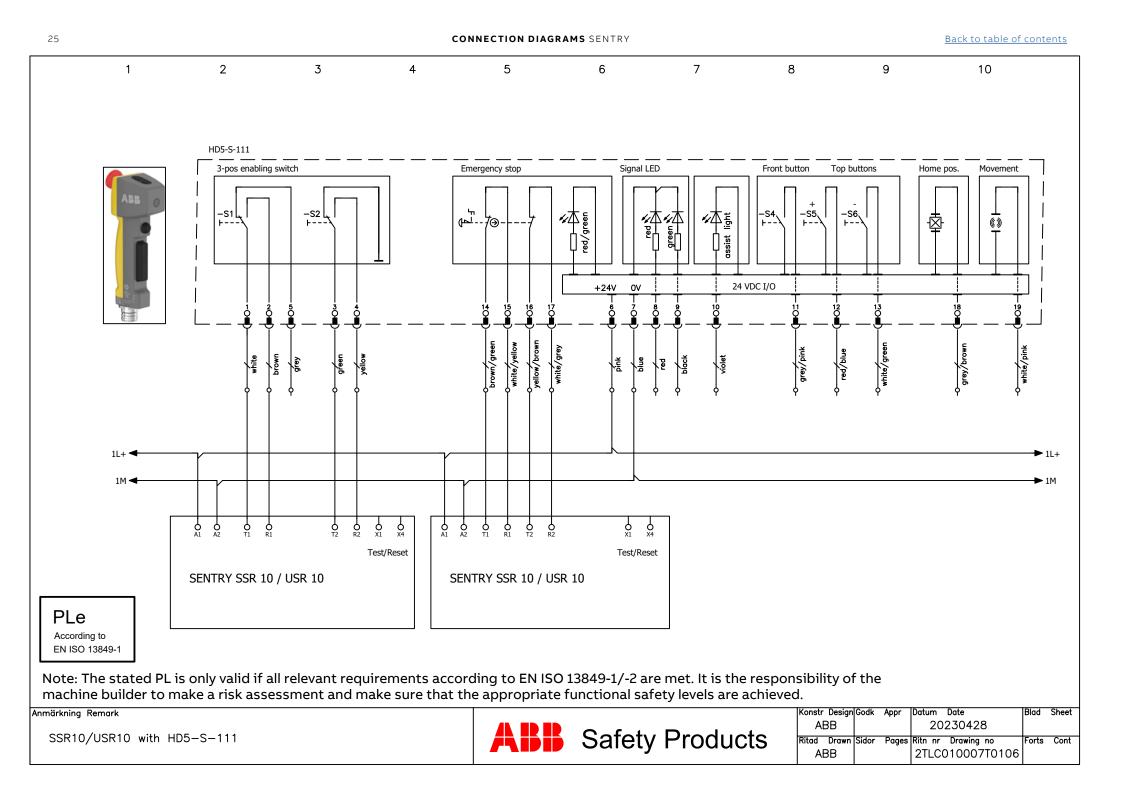


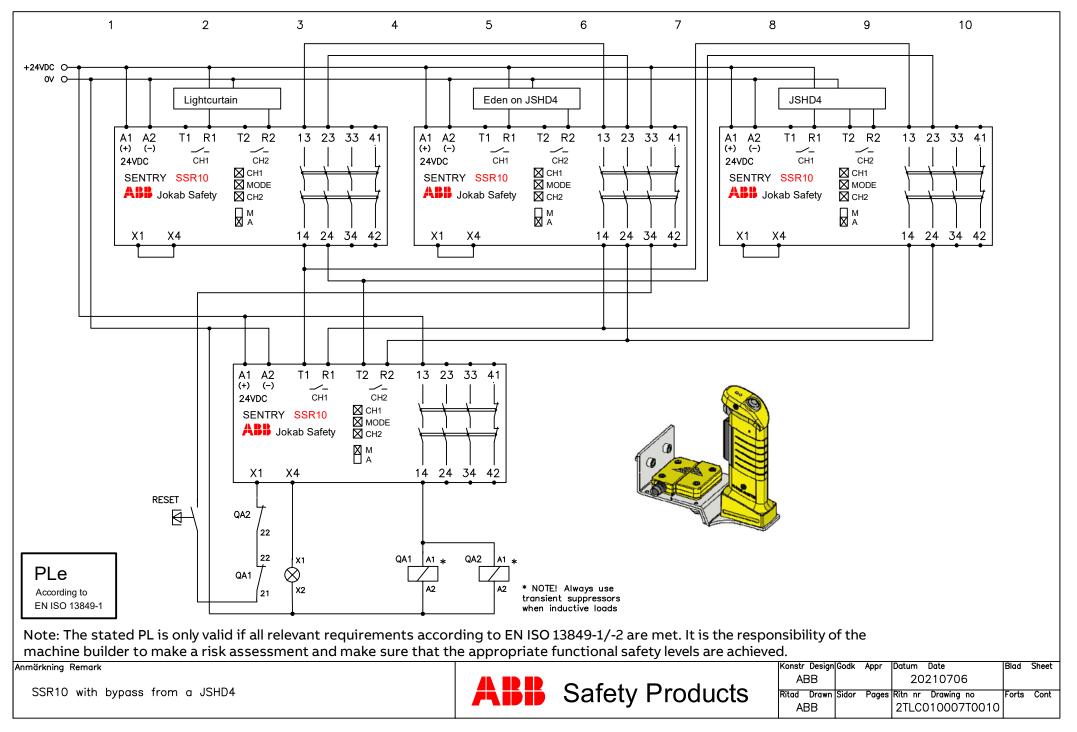


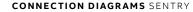


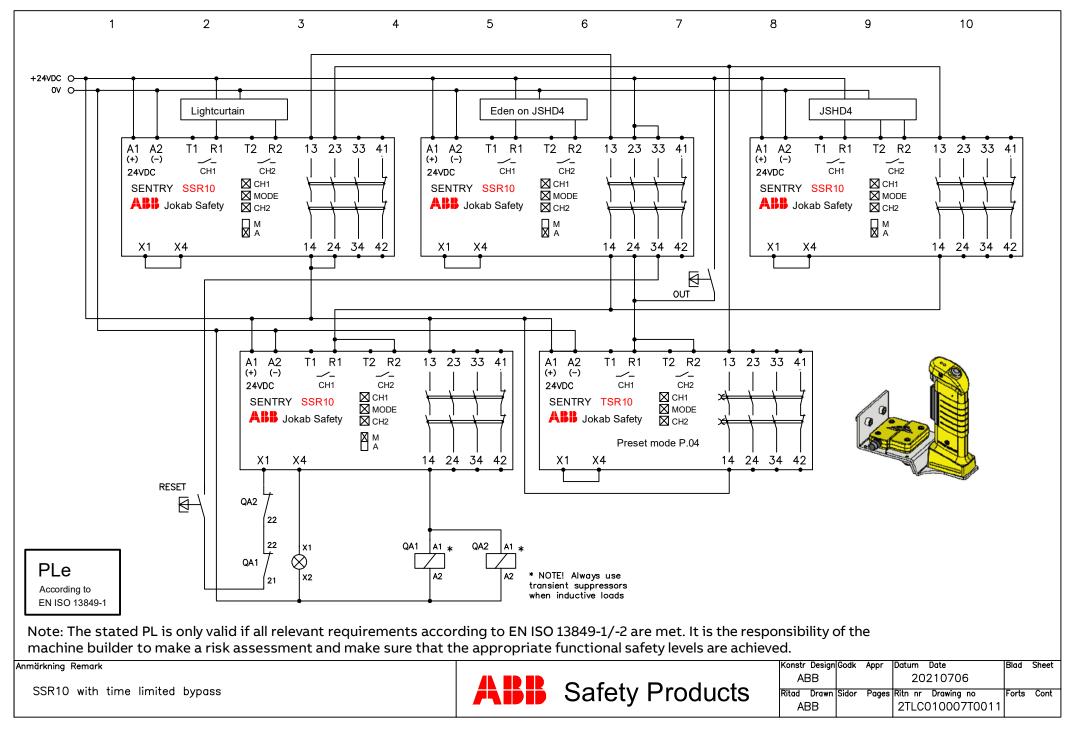
CONNECTION DIAGRAMS SENTRY

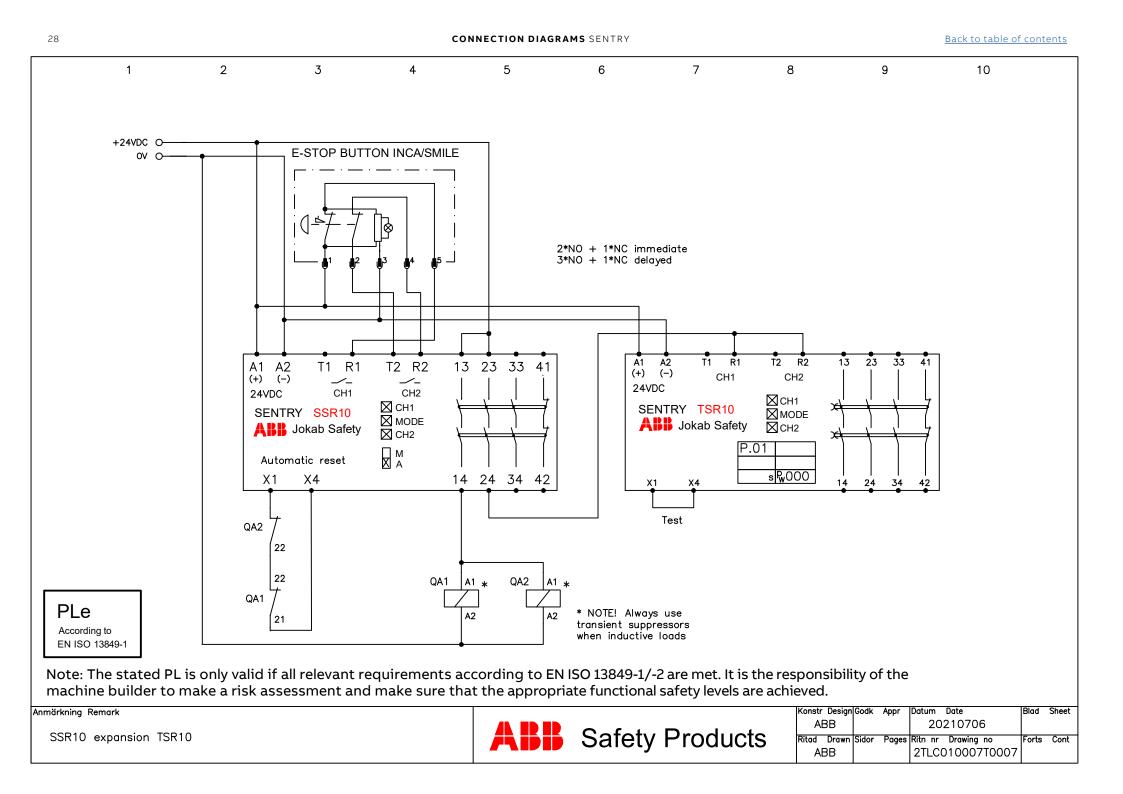


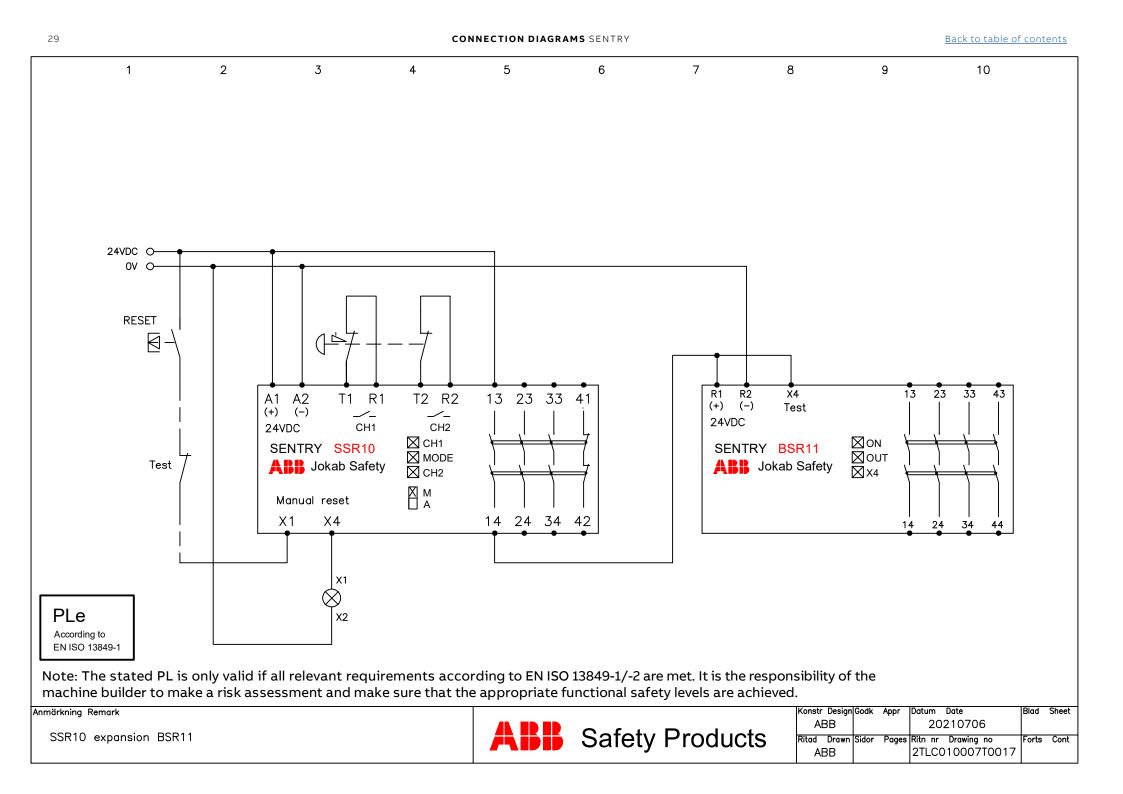


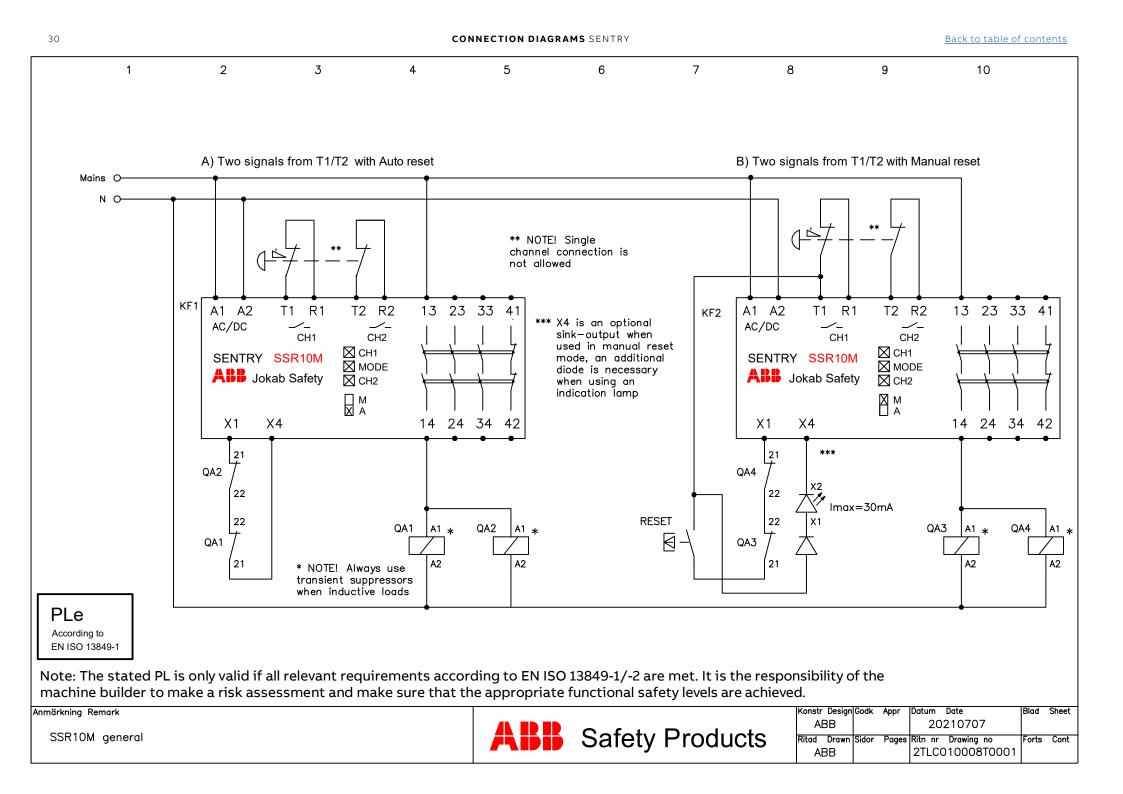


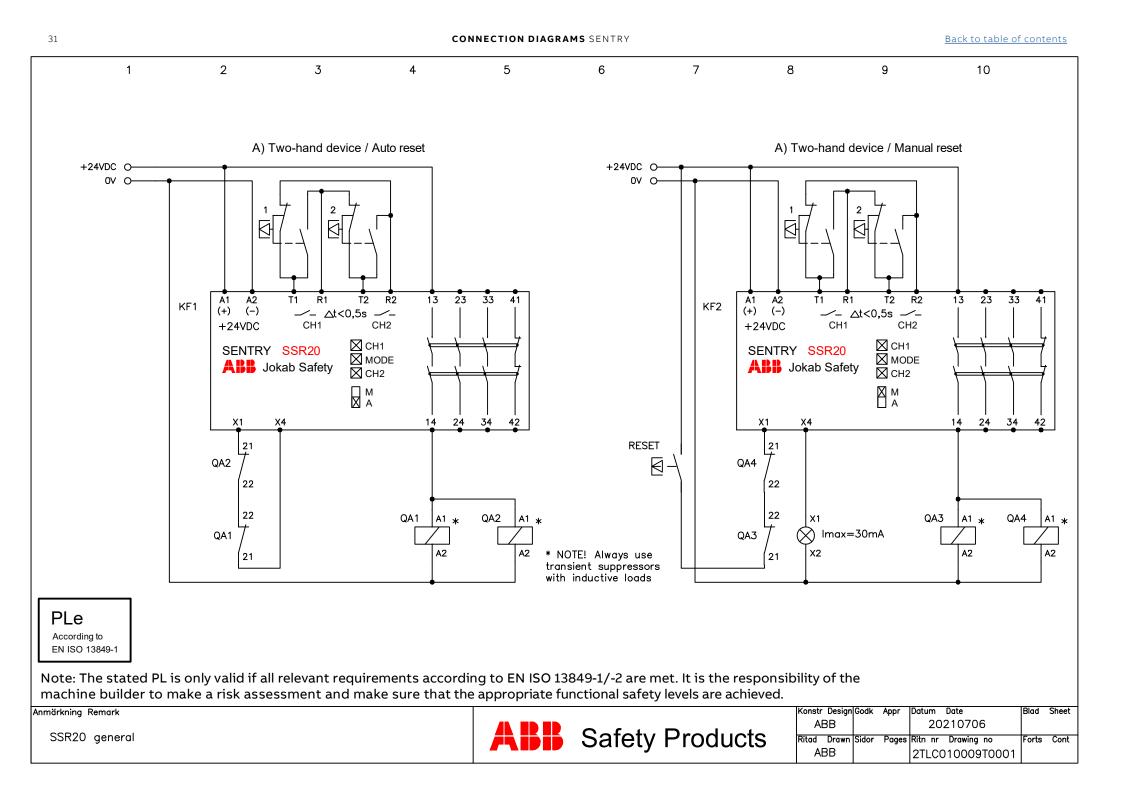


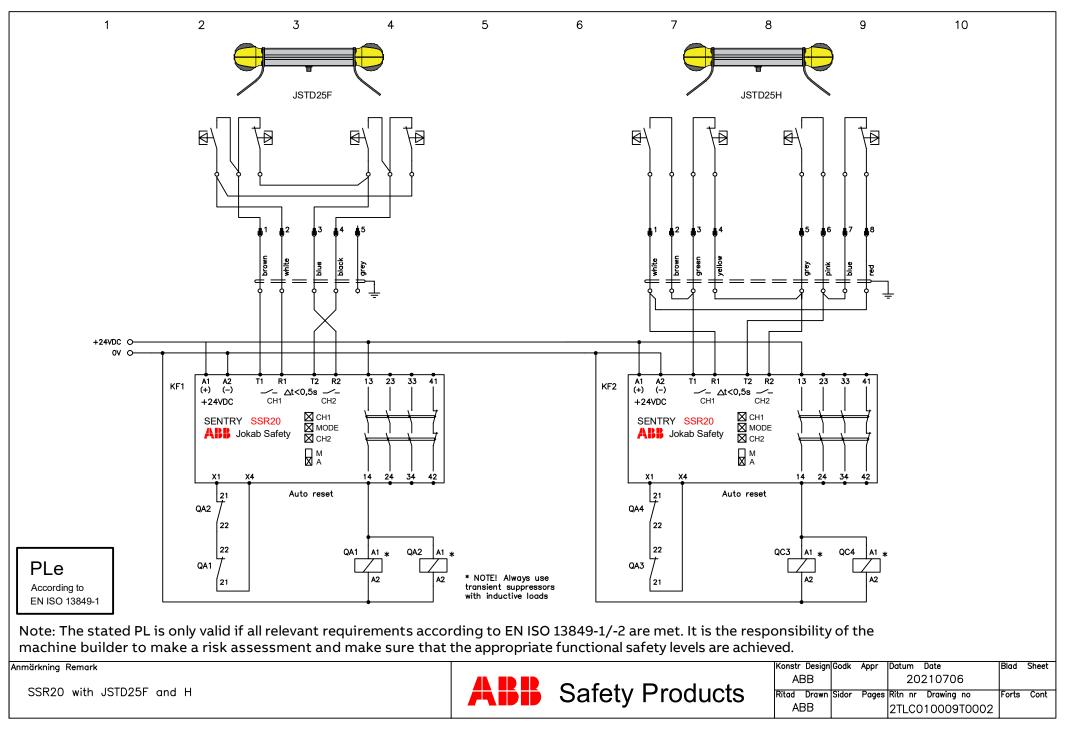




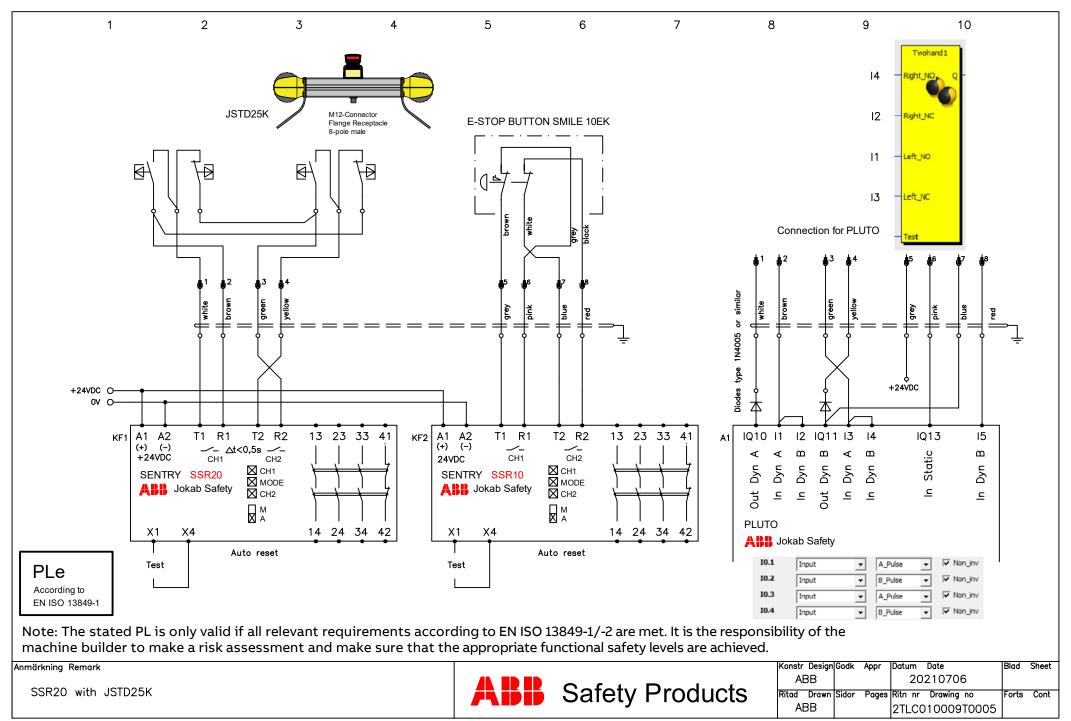


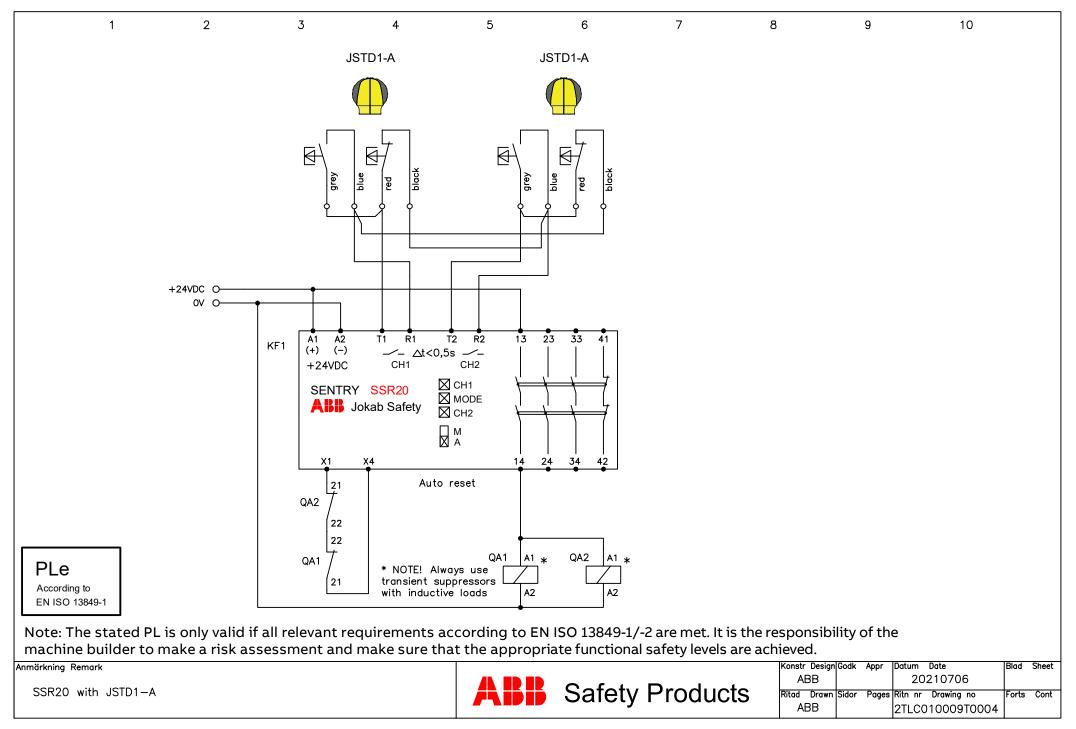




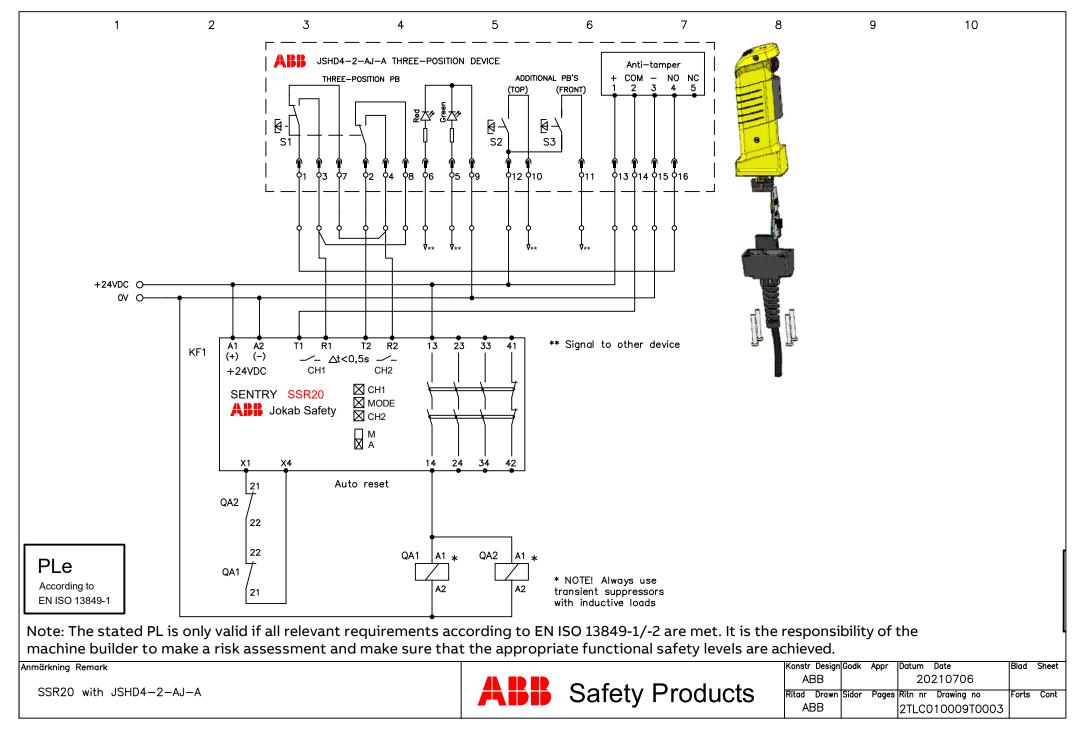


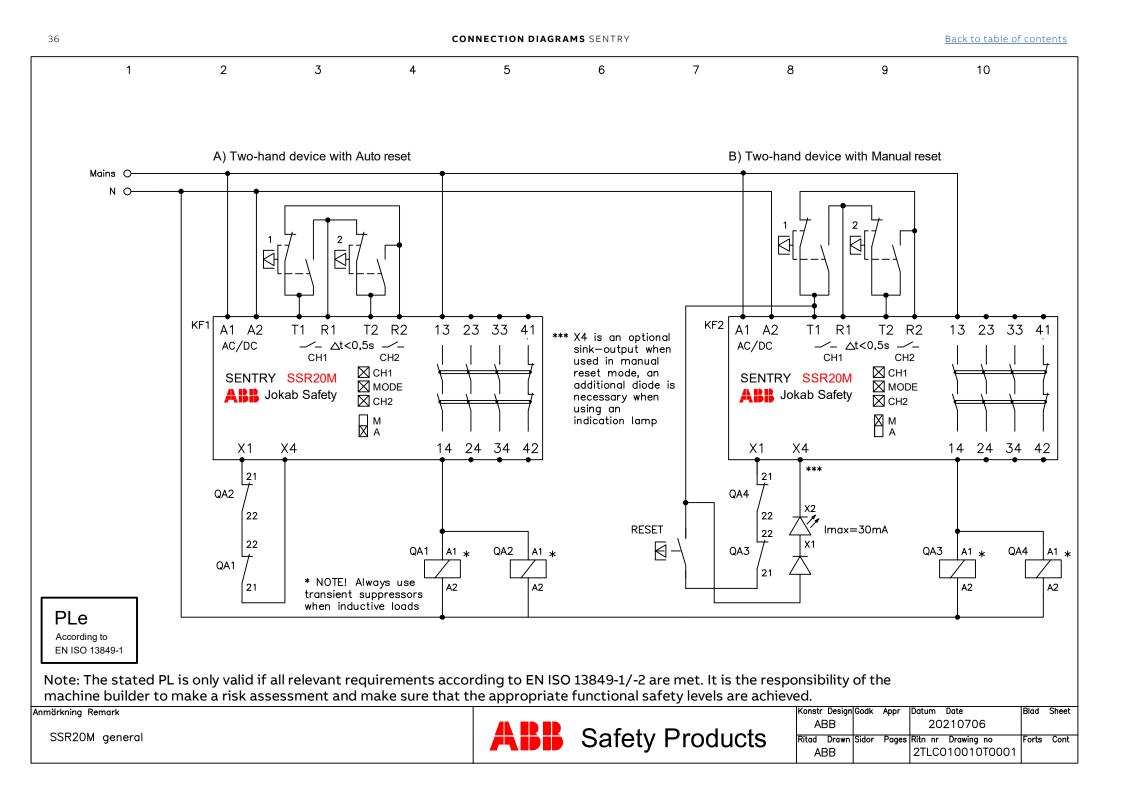
33

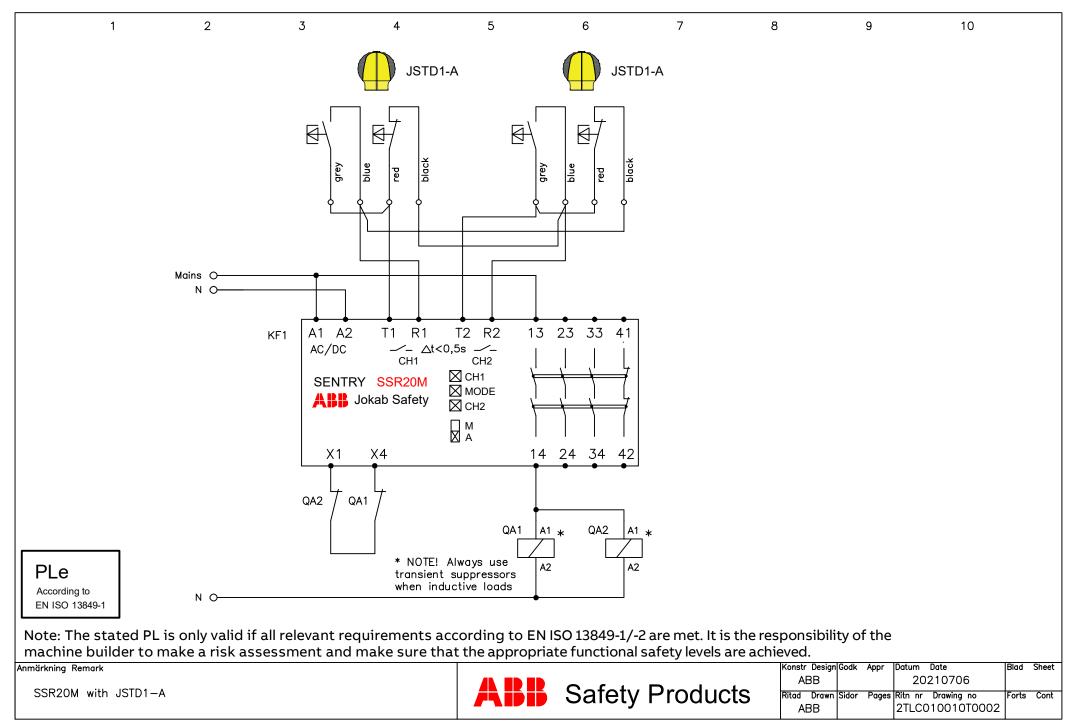


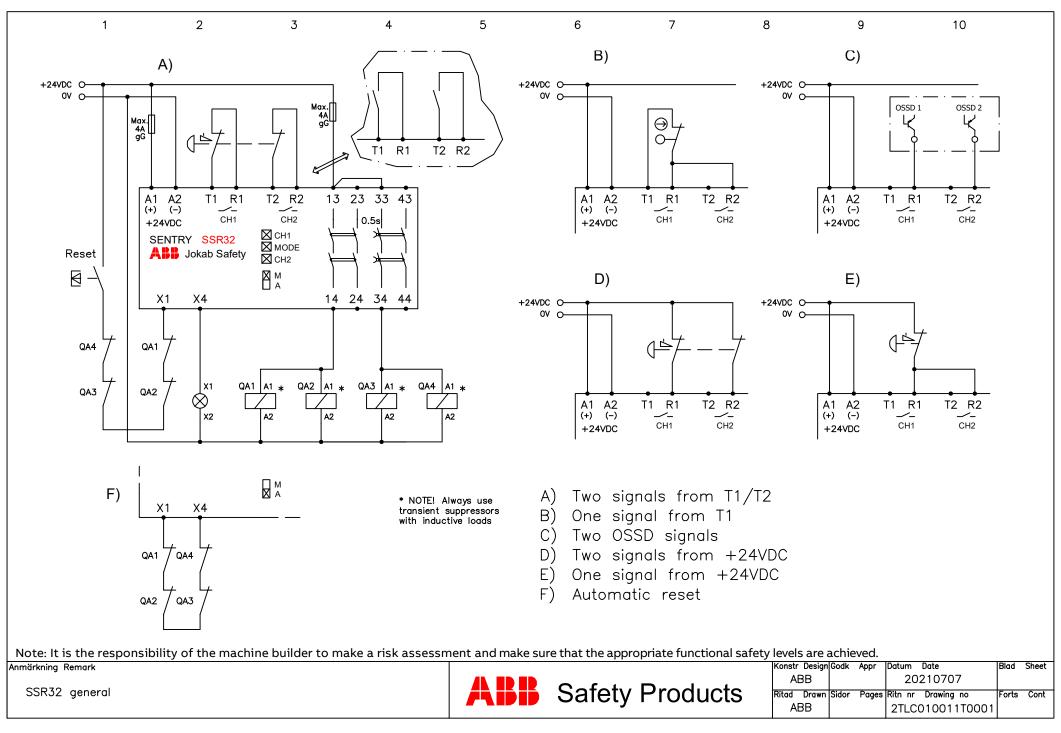


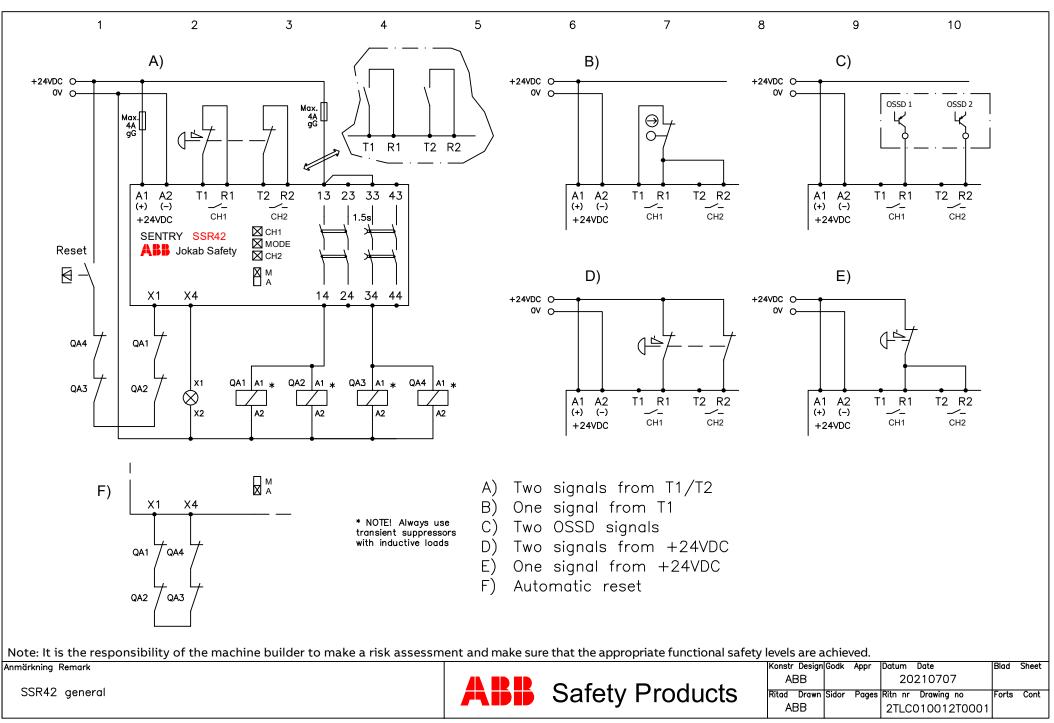
35

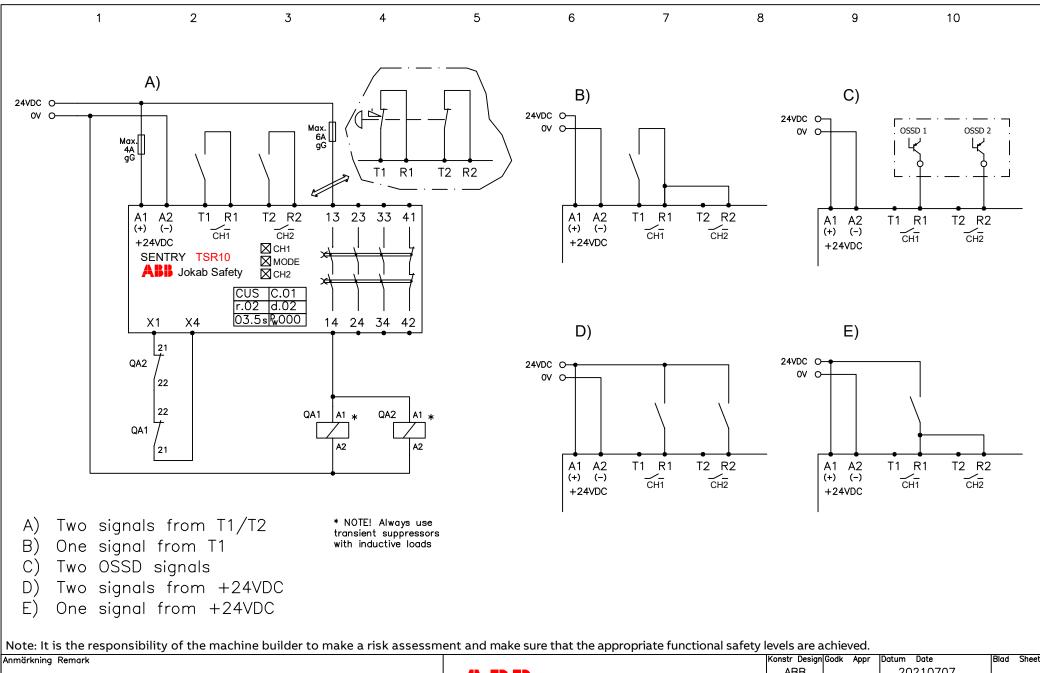










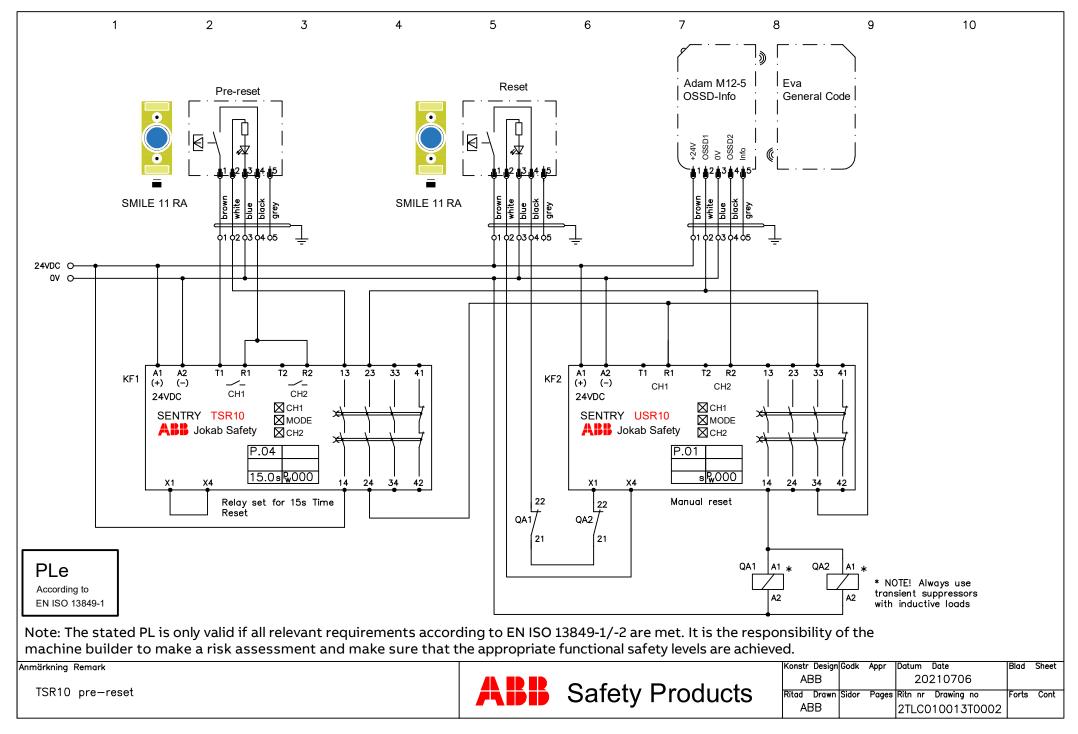


TSR10 general

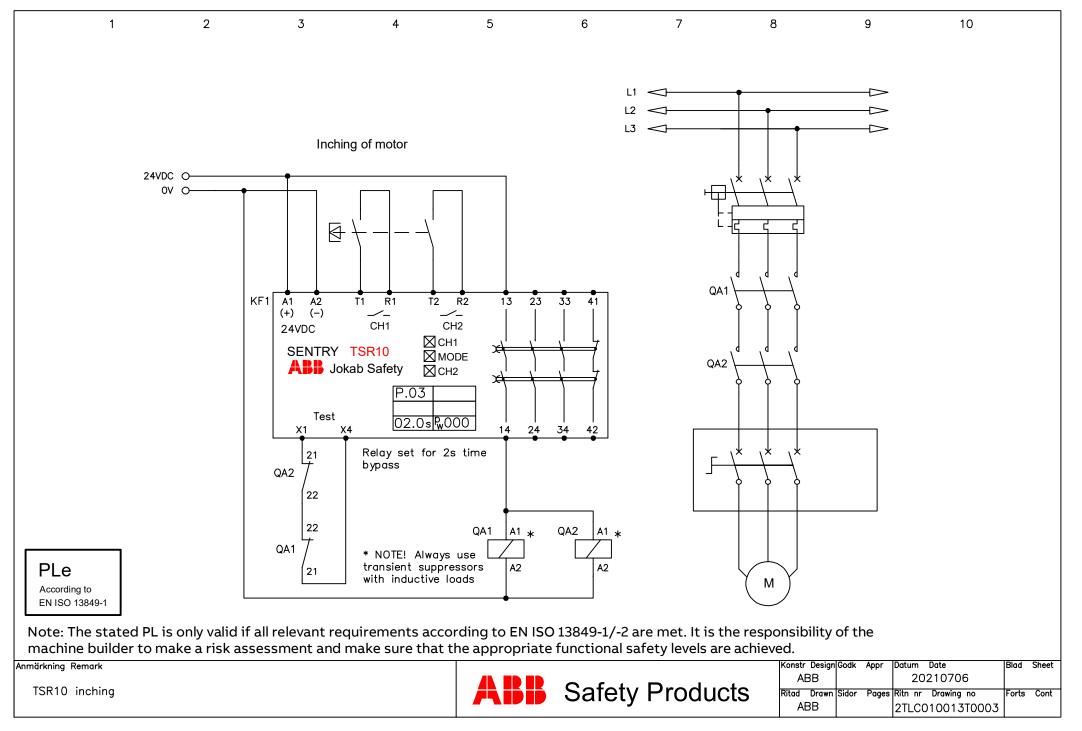
ABB Safety Products

(onstr Design	Godk	Appr	Datum Date	Blad	Sheet
ABB			20210707		
Ritad Drawn	Sidor	Pages	Ritn nr Drawing no	Forts	Cont
ABB			2TLC010013T0001		

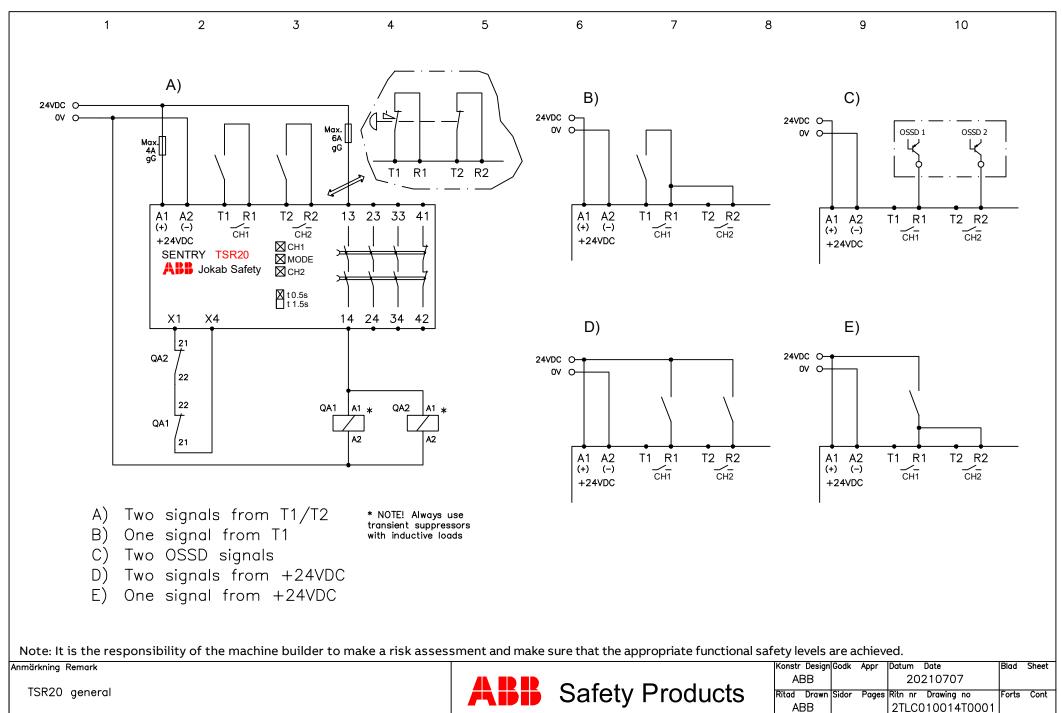
CONNECTION DIAGRAMS SENTRY



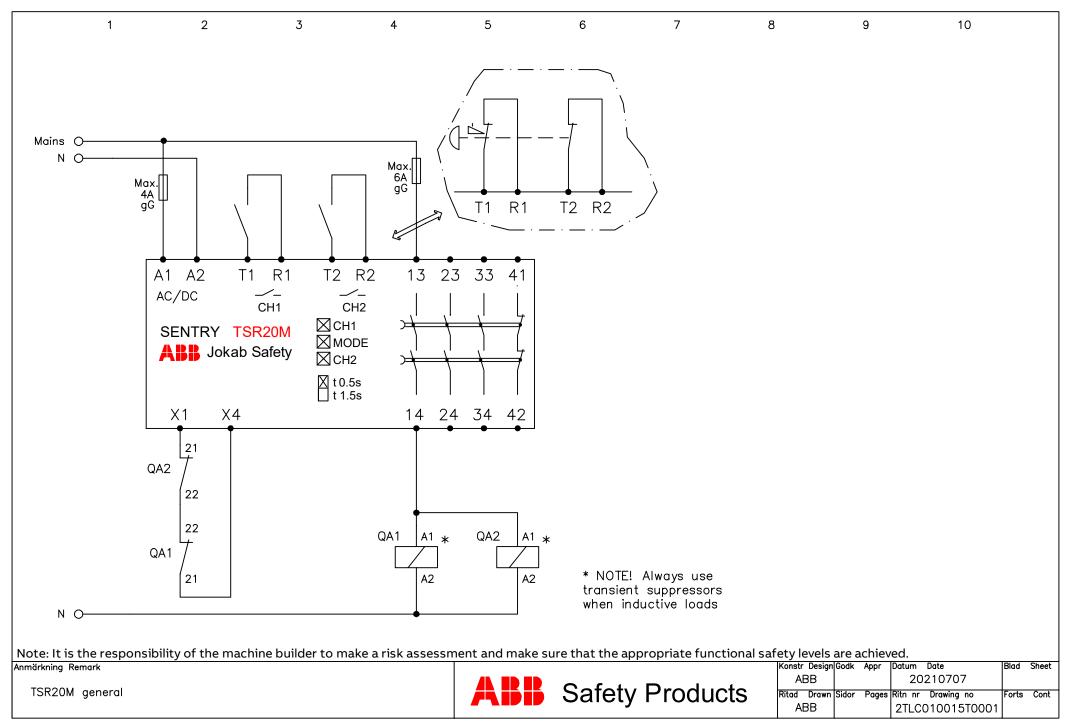


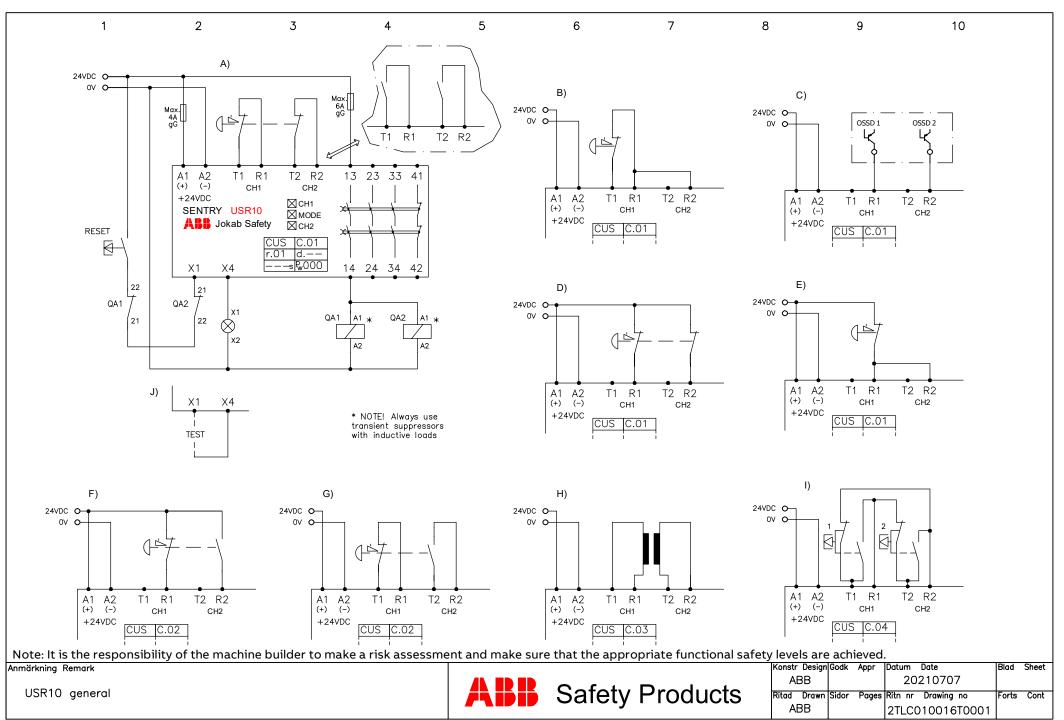


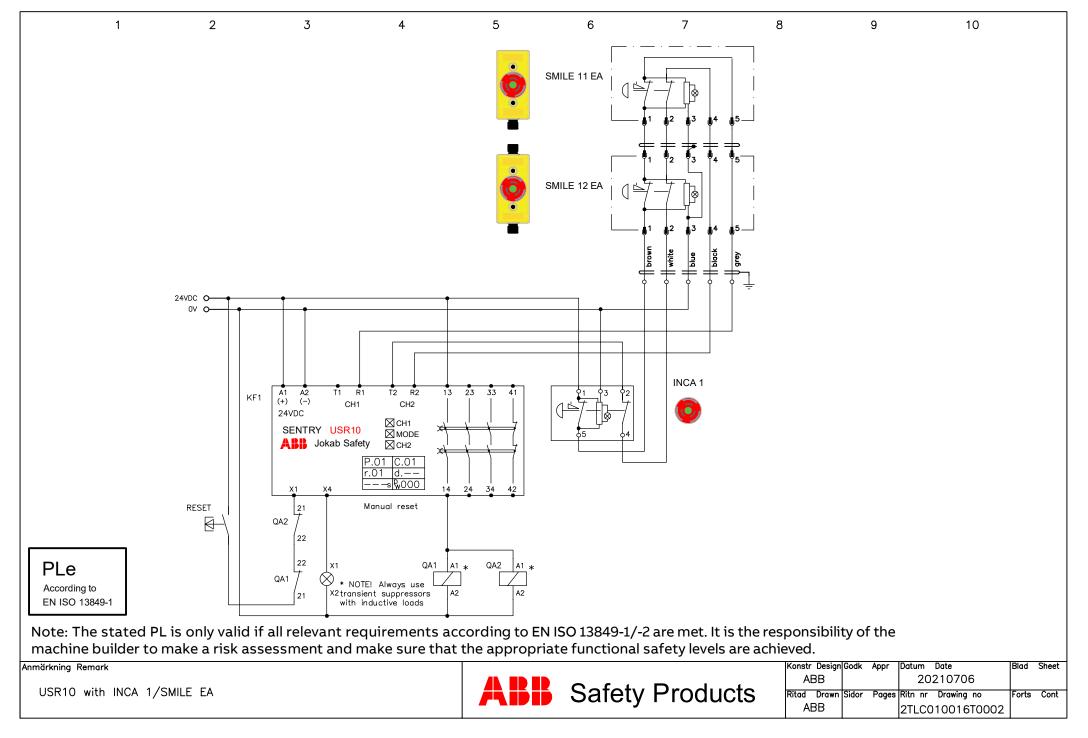


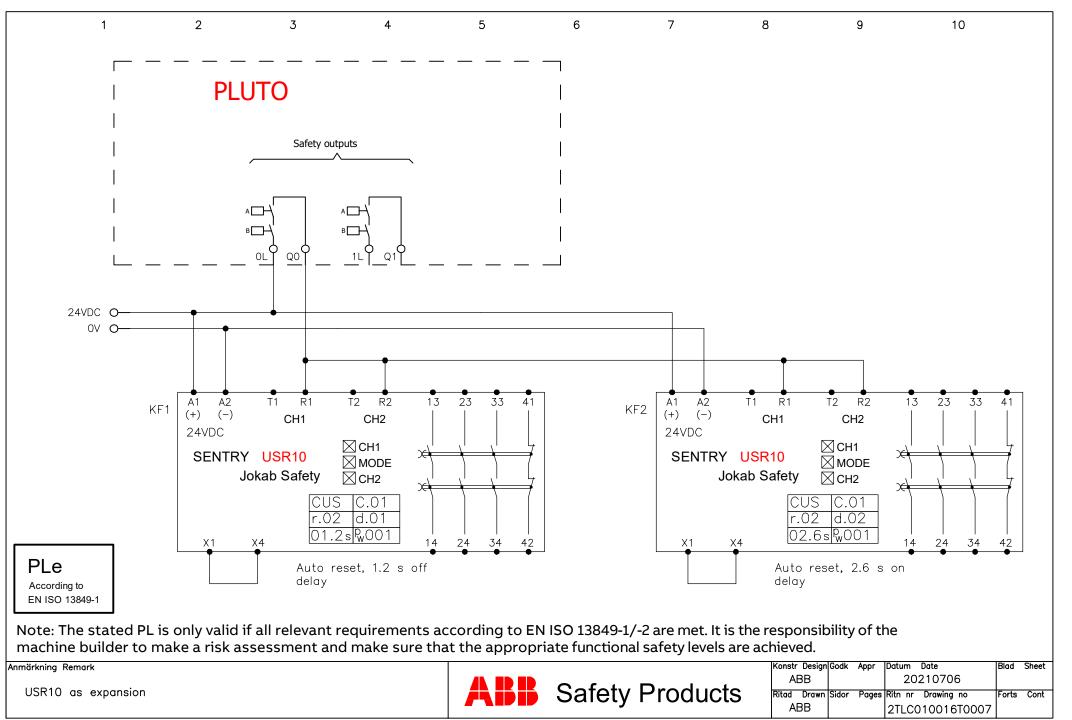


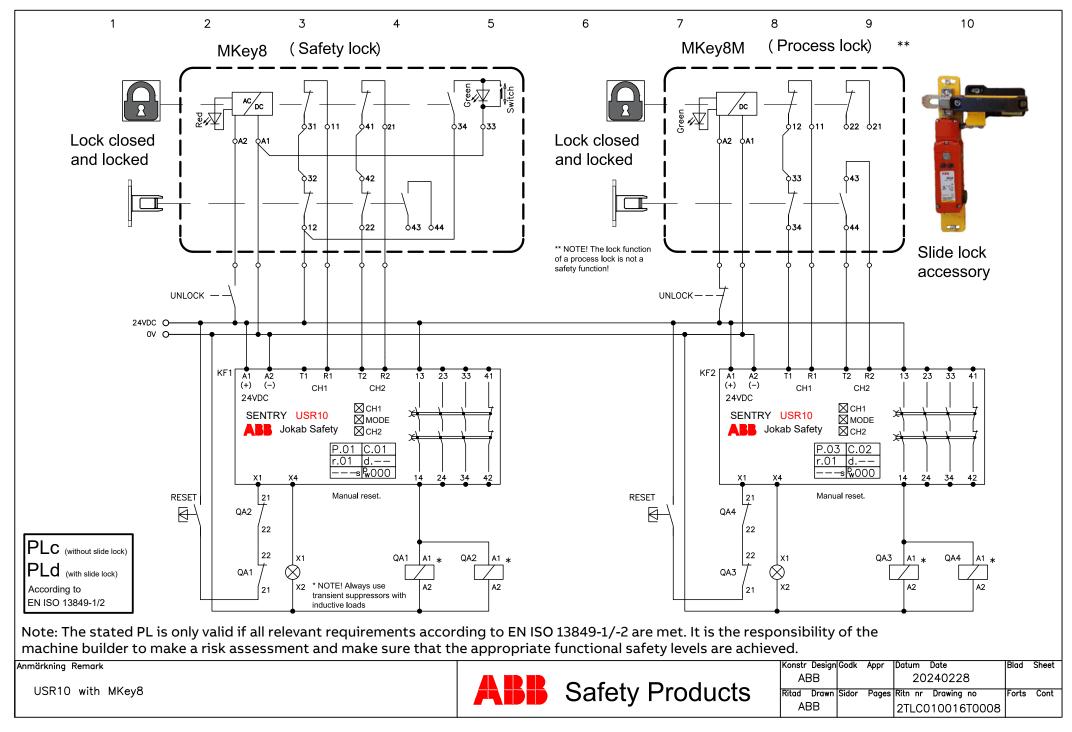


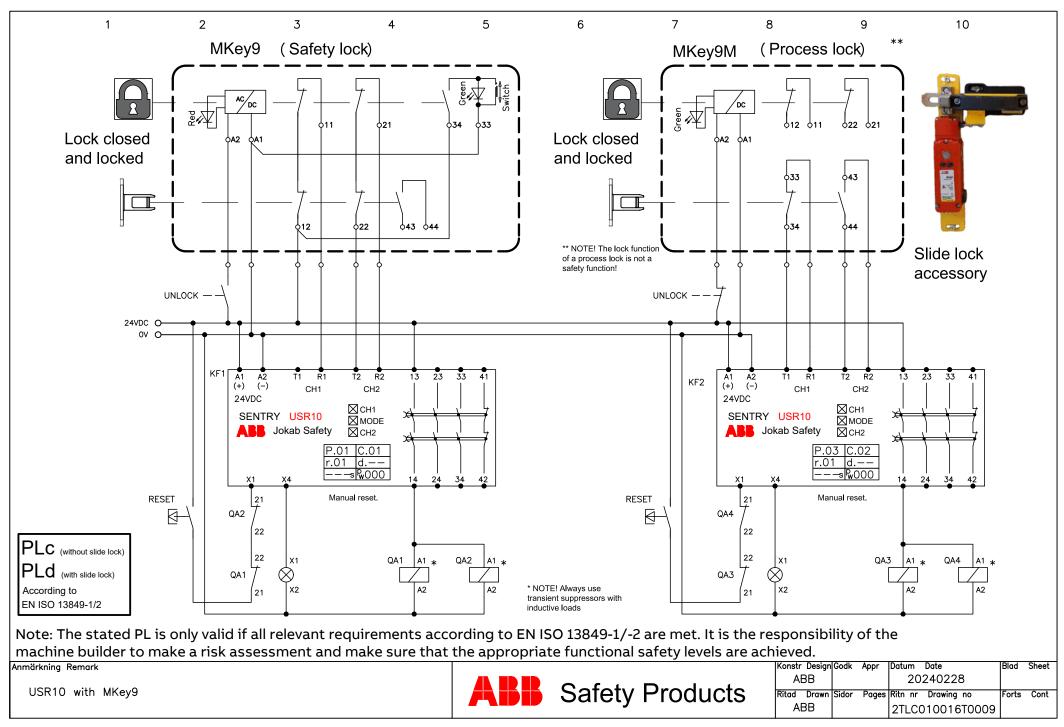






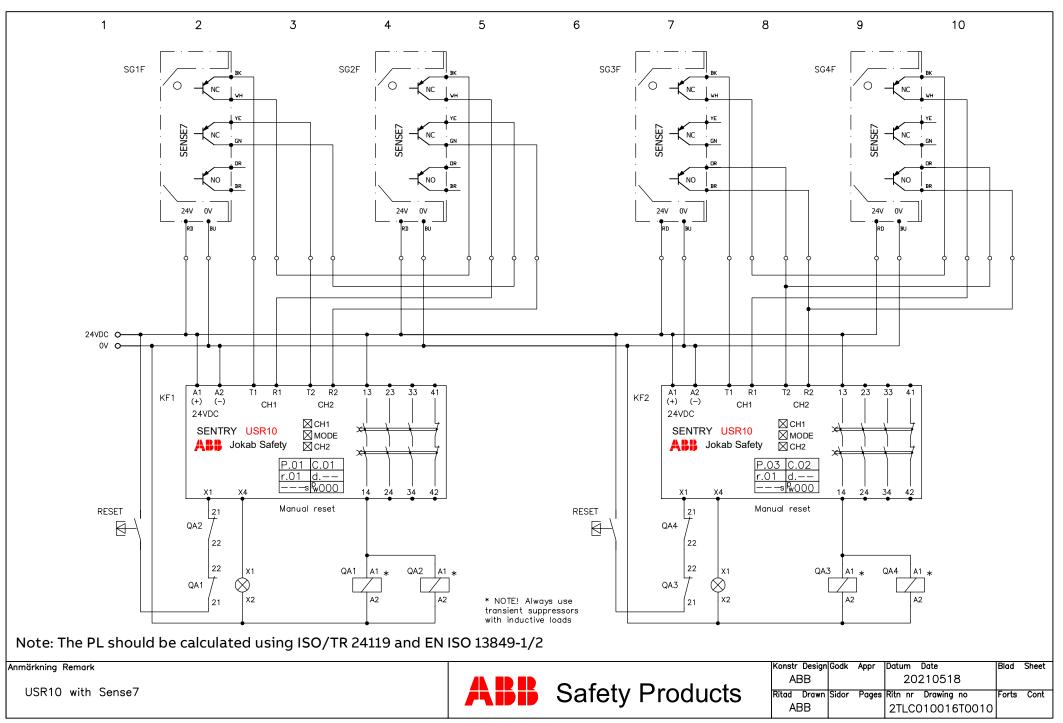


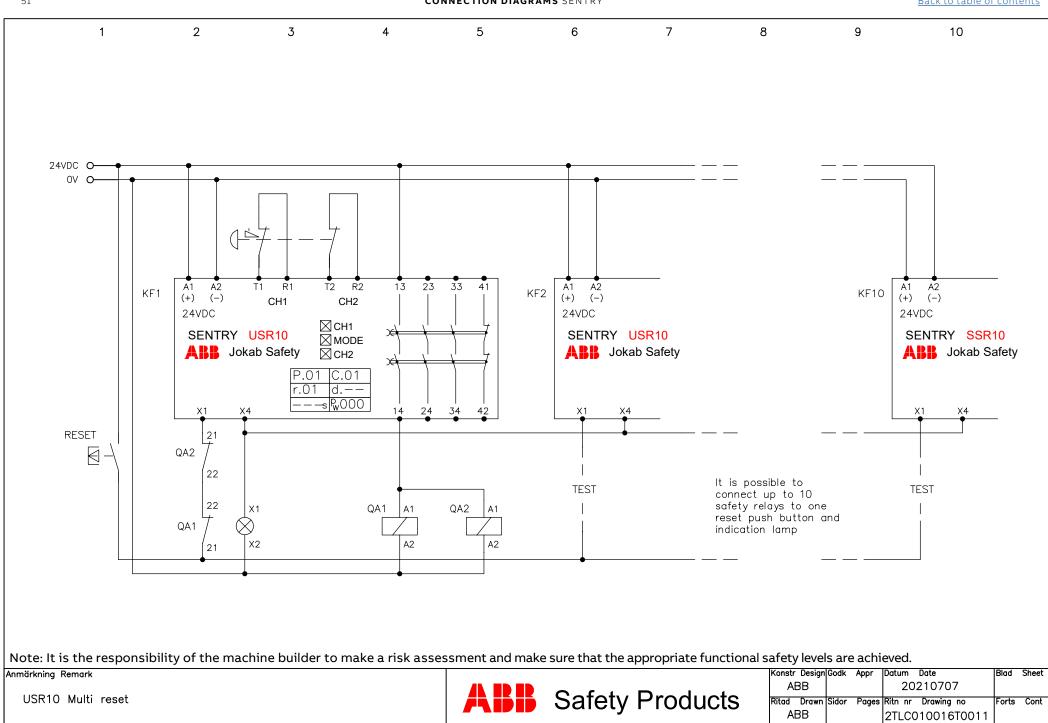




CONNECTION DIAGRAMS SENTRY

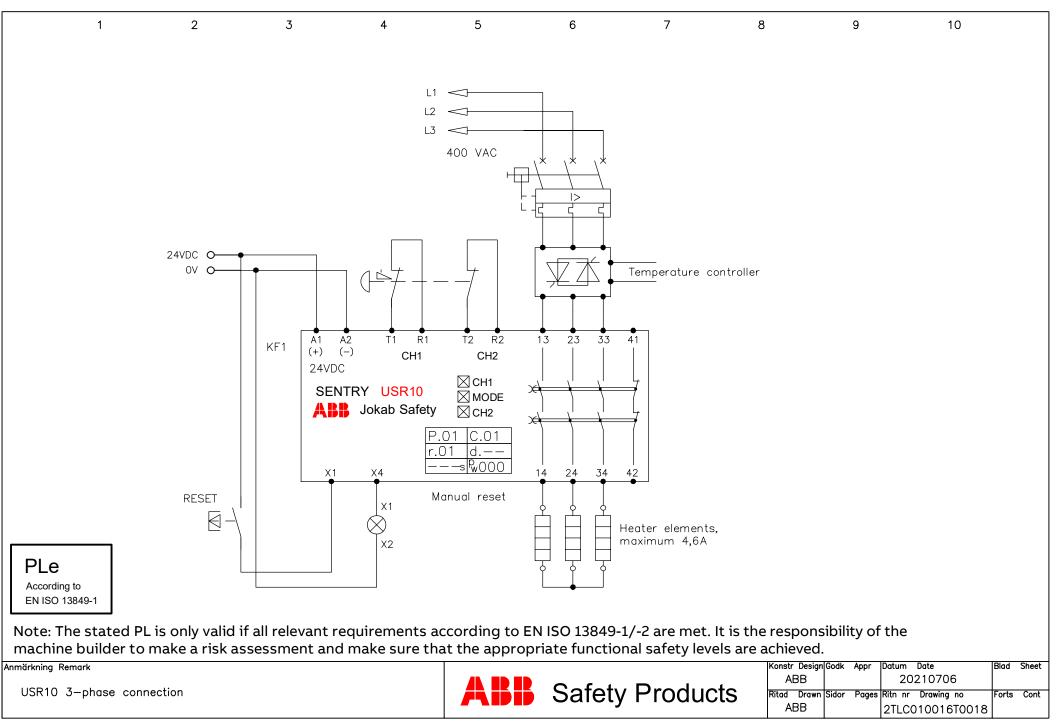
Back to table of contents





CONNECTION DIAGRAMS SENTRY

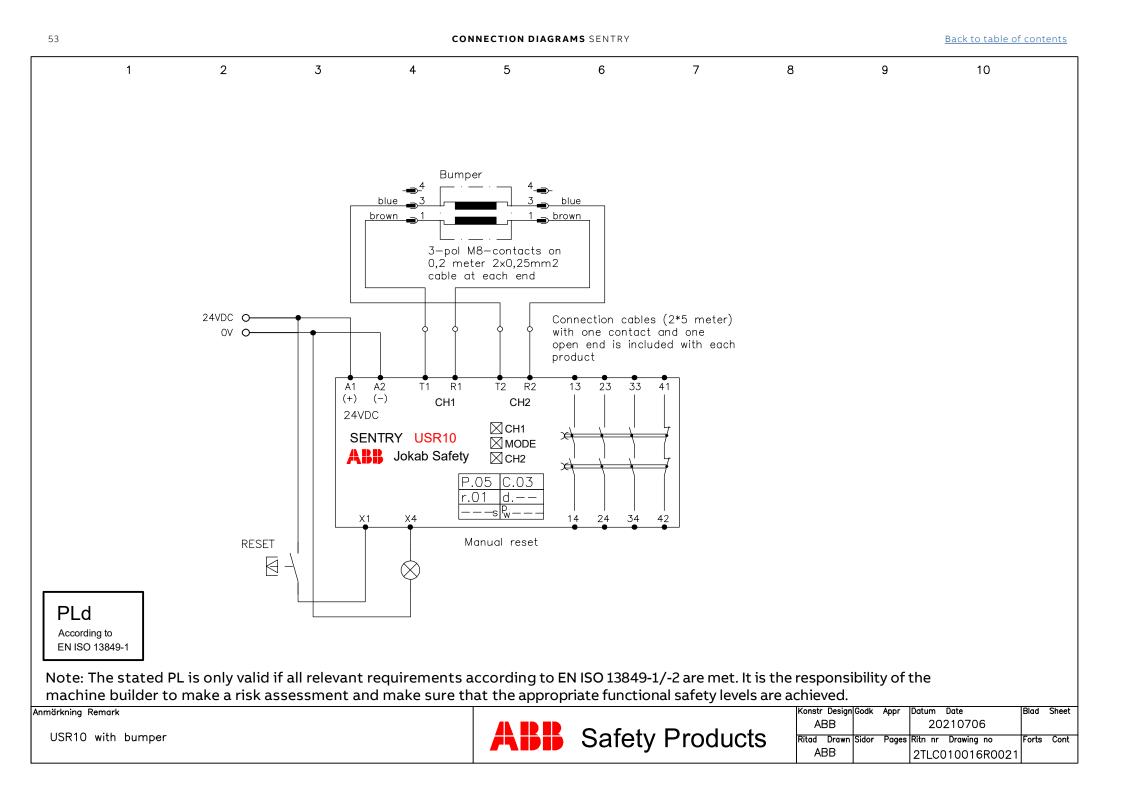
Back to table of contents

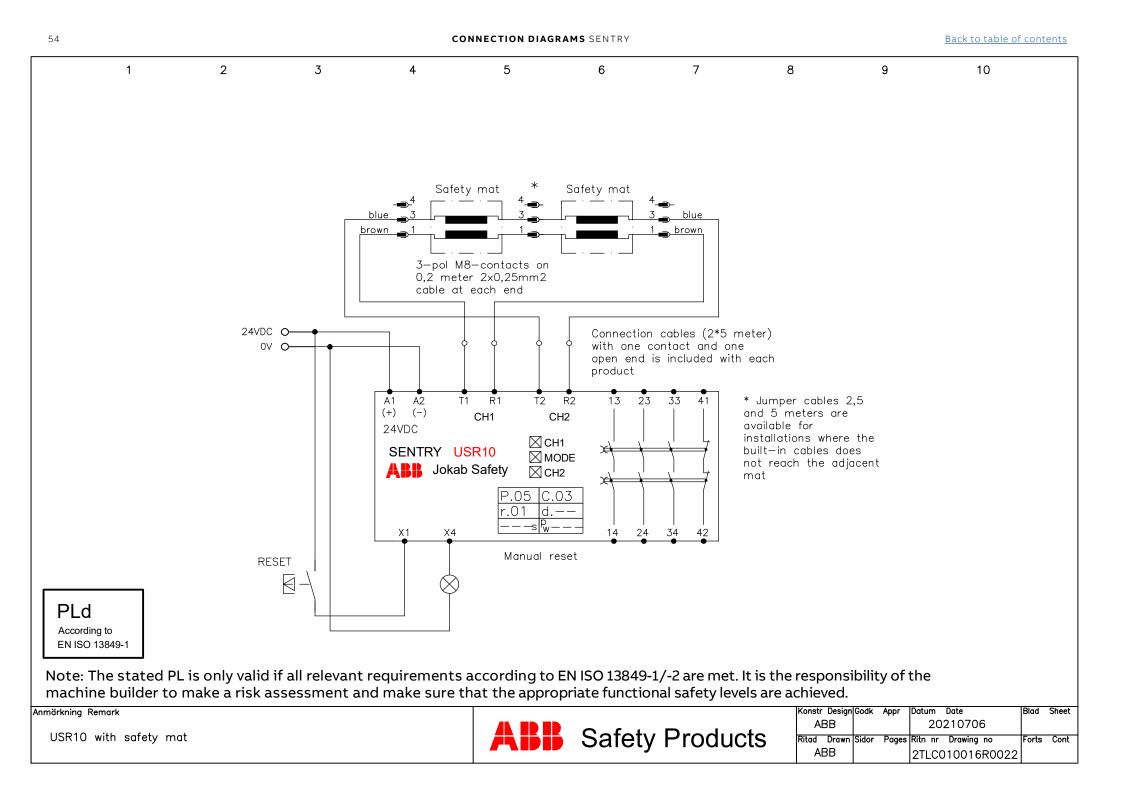


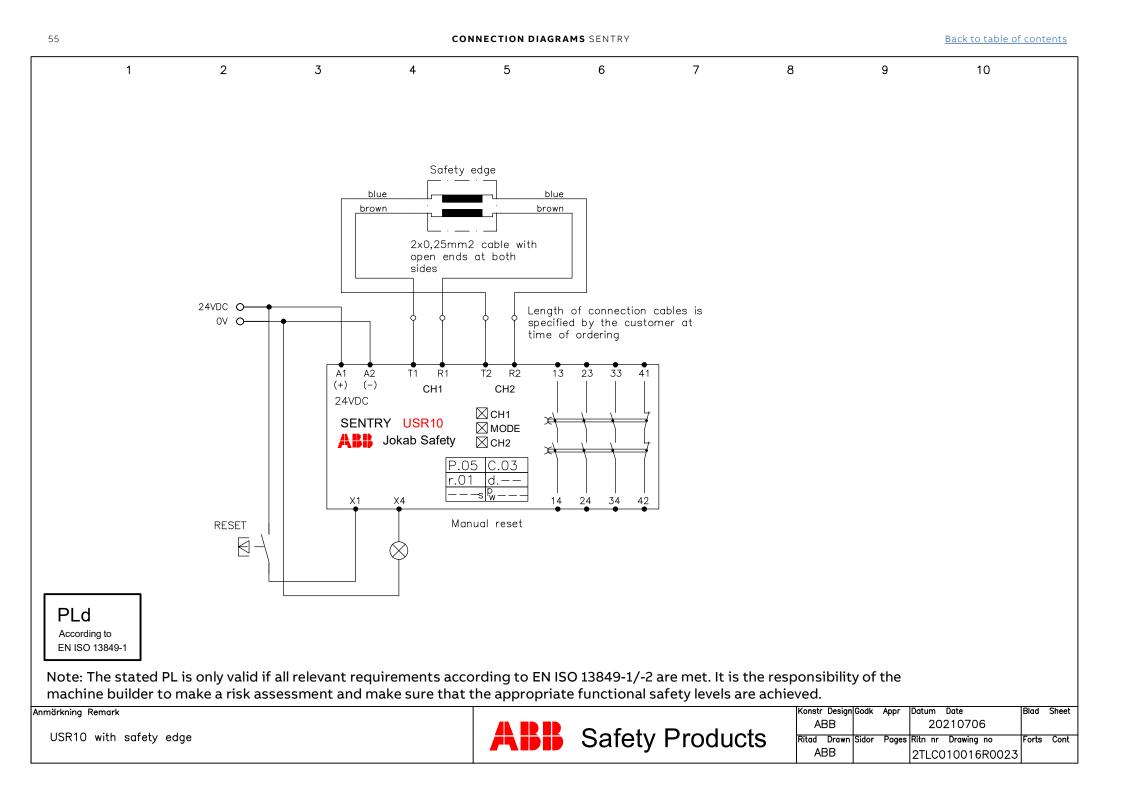
CONNECTION DIAGRAMS SENTRY

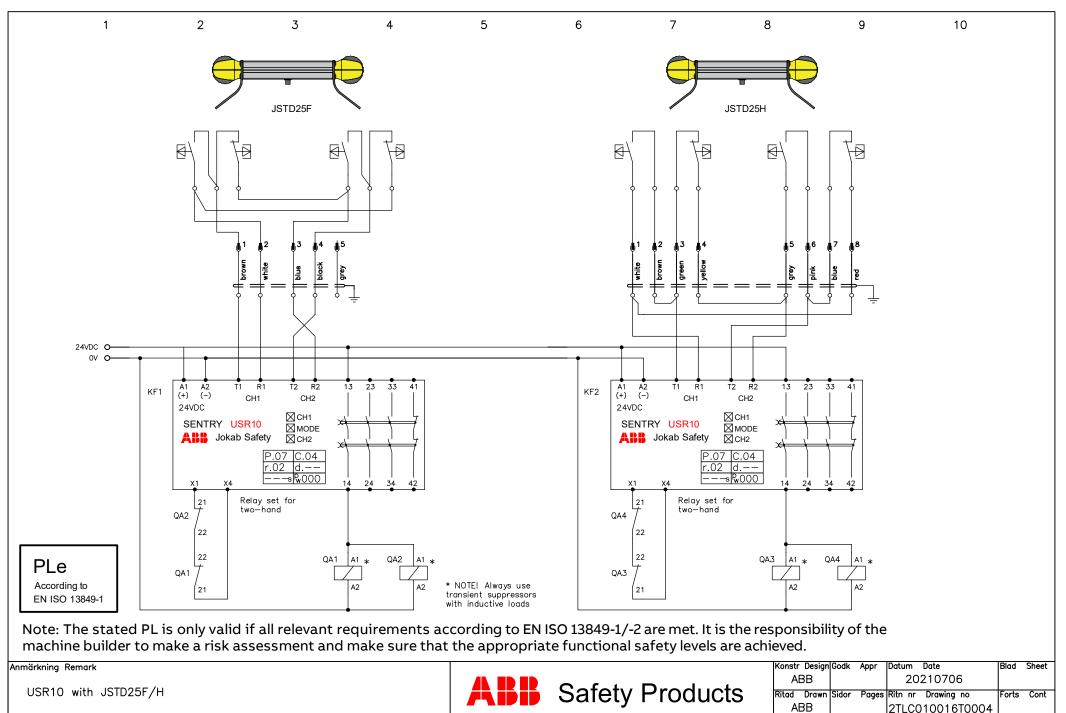
Back to table of contents

52









56



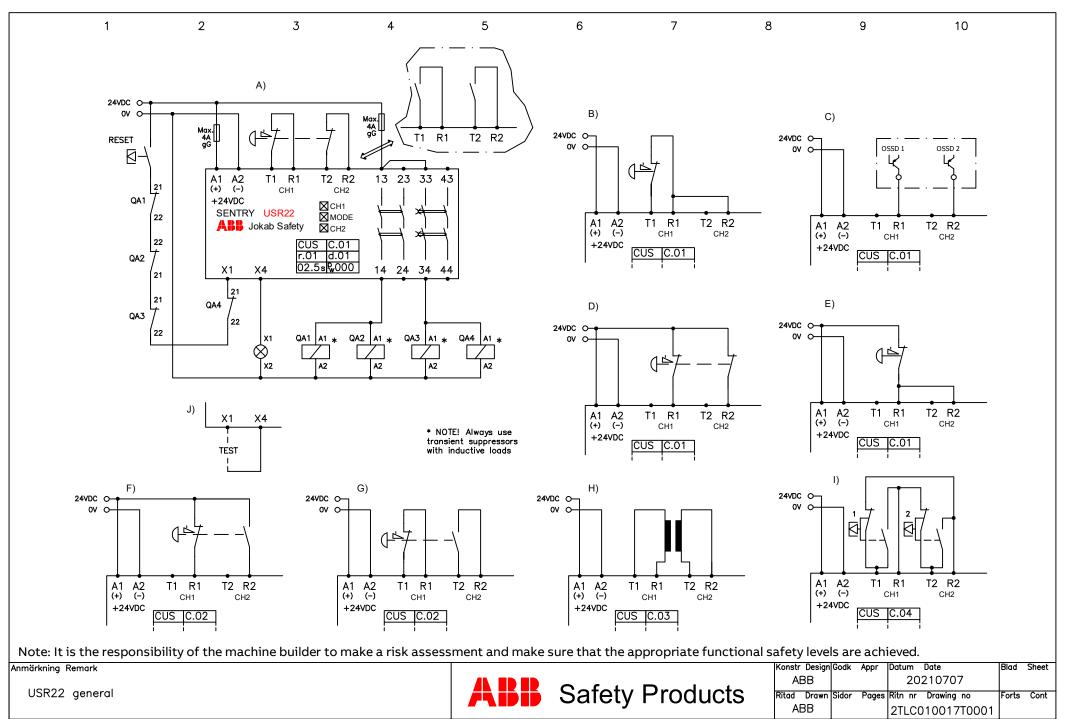




ABB Electrification Sweden AB SE-721 61 Västerås Tel. +46 (0) 21-32 50 00 www.abb.com/low-voltage

Note!

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB.

Copyright© 2024 ABB All rights reserved