

## Selection guide C570 – C6702

### Selection table for ABB safety relays in accordance to risk category (EN 954-1):

Category	C 570	C 571	C 572	C 573	C 574	C 575	C 576	C 577	C 578	C 6700	C 6701	C 6702
<b>B</b>												
<b>1</b>	x	x	x	x	x		x	x		x	x	x
<b>2</b>	x	x	x	x	x		x	x		x	x	x
<b>3</b>	x <sup>①</sup>	x	x	x	x		x	x		x	x	x
<b>4</b>		x <sup>①</sup>	x	x <sup>①</sup>	x <sup>②</sup>	x	x	x	x		x	x

### Selection table for ABB safety relays in accordance to device characteristics

Characteristics suitable for device	C 570	C 571	C 572	C 573	C 574	C 575	C 576	C 577	C 578	C 579	C 6700	C 6701	C 6702
<b>7</b> EMERGENCY STOP	yes	yes	yes	yes	yes	—	yes	yes	—	③	yes	yes	yes
Safety gate monitoring	yes	yes	yes	yes	yes	—	yes	yes	—	③	yes	yes	yes
Tread mats	—	—	—	—	—	—	—	—	—	—	—	—	-
Two-hand control e.g. presses	—	—	—	—	—	yes	—	—	—	—	—	—	-
Feedback loop for monitoring of external contactors	yes	yes	yes	yes	yes	yes	yes	yes	—	—	yes	yes	yes
Single channel	yes	yes	yes	yes	yes	—	—	—	—	—	yes	yes	yes
Two channel	—	yes	yes	yes	—	yes	yes	yes	—	—	yes	yes	yes
Cross-short circuit monitoring	—	—	yes	—	yes	—	yes	yes	—	—	—	yes	yes
24VDC at the EMERGENCY STOP limit switch	—	—	yes	—	—	yes	yes	yes	yes	—	yes	yes	yes
Operating voltage at the EMERG. STOP limit switch	yes	yes	—	yes	yes	—	—	—	—	—	—	—	-
No. of safety outputs	4	2	3	3	2	2	2	2	—	4	2 <sup>④</sup>	2	1
No. of time delayed safety output contacts	—	—	—	—	1	—	—	—	—	—	—	—	1
No. of signalling contacts	2	—	2	1	2	2	—	—	—	—	—	— <sup>⑤</sup>	— <sup>⑤</sup>
Enclosure width in mm	75	22.5	45	22.5	45	45	22.5	22.5	45	22.5	22.5	22.5	22.5
Monitoring overtravel e.g. presses	—	—	—	—	—	—	—	—	yes	—	—	—	—
Auto-start	yes	yes	yes	yes	yes	—	yes	—	—	—	yes	yes	yes
Controlled/monitored start	—	—	yes	—	—	—	—	yes	—	—	yes	yes	yes

① Possible with additional external measures.

② Applies only to undelayed contact. Category 3 applies to delayed contact.

③ Contact extension

④ Solid-state outputs requirements of safety in acc. to 954-1 only in combination with positively guided contactors.

⑤ Solid-state outputs could also be used as safe messaging outputs.