ALCO Cross Reference Catalog Page

LIT-1900211

2020-04-22

Description

See the following tables and figures for more information.

Cross references

Table 1: Temperature Controls

Product	#	Range	Differential	Switch	Capillary	Bulb	Cover
ALCO	TF115-S2 AE00	-20/60F	3/30F ADJ	Single-pole, double-throw (SPDT)	None	Coiled	NEMA 1
ALCO	TSI-X2E 30/40	-20/60F	3/30F ADJ	SPDT	None	Coiled	NEMA 1
PENN	A19BBC-2C[1]	-30/100F	3/12F ADJ	SPDT	None	Coiled	NEMA 1
PENN	A19BBC-6C[1, 2]	-30/100F	3/12F ADJ	SPDT	None	Coiled	NEMA 1
ALCO	TF115-S3 AE00	15/95F	3/30F ADJ	SPDT	None	Coiled	NEMA 1
ALCO	TSI-X3E 64/48	15/95F	3/30F ADJ	SPDT	None	Coiled	NEMA 1
PENN	A19BBC-2C[1]	-30/100F	3/12F ADJ	SPDT	None	Coiled	NEMA 1
PENN	A19BBC-6C[1, 2]	-30/100F	3/12F ADJ	SPDT	None	Coiled	NEMA 1
ALCO	TF115-S4 AF10	-20/95F	5/35F ADJ	SPDT	120"	3/8x2-3/4	NEMA 1
ALCO	TSI-X4F 32/41	-20/95F	5/35F ADJ	SPDT	120"	3/8x2-3/4	NEMA 1
PENN	A19ABC-24C[1]	-30/100F	3/12F ADJ	SPDT	96"	3/8x4	NEMA 1
PENN	A19ABC-36C[1]	-30/100F	3/12F ADJ	SPDT	240"	3/8x4	NEMA 1

1 Can use A419ABC-1, -30/212F range, 1/30F differential, SPDT, 78” lead, 0.25 x 2 PTC sensor, NEMA 1.
2 Knob assembly/concealed adjustment packed separately.

Figure 1: Temperature Control



Table 2: Pressure Controls

Product	#	Range	Differential	Switch	Capillary	Connection	Cover
ALCO	FF115-S1 BAK	24"/42	3/30 ADJ	SPDT	36"	w/ Flare	NEMA 1
ALCO	PS1-X1K 7/15	24"/42	3/30 ADJ	SPDT	36"	w/ Flare	NEMA 1
PENN	P70AB-12C	12"/80	5/35 ADJ	Open LO	36"	w/ Flare	NEMA 1
ALCO	FF115-S3 BAK	15"/100	7/70 ADJ	SPDT	36"	w/ Flare	NEMA 1
ALCO	PS1-X3K 50/65	15"/100	7/70 ADJ	SPDT	36"	w/ Flare	NEMA 1
PENN	P70AB-2C	20"/100	7/50 ADJ	Open LO	36"	w/ Flare	NEMA 1
ALCO	FF115-S3 BAA	15"/100	7/70 ADJ	SPDT	None	External Flare	NEMA 1
ALCO	PS1-X3A 50/65	15"/100	7/70 ADJ	SPDT	None	External Flare	NEMA 1
PENN	P170AB-2C	20"/100	7/50 ADJ	Open LO	None	External Flare	NEMA 1
ALCO	FF115-S4 BAK	15/290	15/145 ADJ	SPDT	36"	w/ Flare	NEMA 1
ALCO	PS1-X4K 115/145	15/290	15/145 ADJ	SPDT	36"	w/ Flare	NEMA 1
PENN	P70AA-2C	0/150	12/40 ADJ	Open LO	36"	w/ Flare	NEMA 1
PENN	P70AA-3C	100/300	25/75 ADJ	Open LO	36"	w/ Flare	NEMA 1
ALCO	FF115-S5 BAK	90/450	30/220	SPDT	36"	w/ Flare	NEMA 1
ALCO	PS1-X5K 230/290	90/450	30/220	SPDT	36"	w/ Flare	NEMA 1
PENN	P70AA-118C	100/400	35/200	Open LO	36"	w/ Flare	NEMA 1
PENN	P70CA-3C	50/450	60/150	Open HI	36"	w/ Flare	NEMA 1
ALCO	FF115-S5 BAA	90/450	30/220	SPDT	None	External Flare	NEMA 1
ALCO	PS1-X5A 140/280	90/450	30/220	SPDT	None	External Flare	NEMA 1
PENN	P170AA-118C	100/400	35/200	Open LO	None	External Flare	NEMA 1
PENN	P170CA-3C	50/450	60/150	Open HI	None	External Flare	NEMA 1
ALCO	FF115-S5 BRK	90/450	Manual	SPDT	36"	w/ Flare	NEMA 1
ALCO	PS1-Y5K 230/290	90/450	Manual	SPDT	36"	w/ Flare	NEMA 1
PENN	P70DA-1C	50/450	Manual	Open HI	36"	w/ Flare	NEMA 1
PENN	P70KA-1C[1]	50/450	Manual	M-Block	36"	w/ Flare	NEMA 1

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Table 2: Pressure Controls

Product	#	Range	Differential	Switch	Capillary	Connection	Cover
ALCO	FF115-S5 BRA	90/450	Manual	SPDT	None	External Flare	NEMA 1
ALCO	PS1-Y5A 330/390	90/450	Manual	SPDT	None	External Flare	NEMA 1
PENN	P170DA-1C	50/450	Manual	Open HI	None	External Flare	NEMA 1

1 Main opens HI, auxilliary opens LO (primarily used for alarm circuit).

Figure 2: Pressure Control



Table 3: Dual Pressure Controls

Product	#	LO Side	Differential	HI Side	Differential	Capillary	Connection
ALCO	FF215-S9 BAUK	24"/42	3/30	90/450	60 FXD	48"	W/ Flare
ALCO	PS2-Y9K	24"/42	3/30	90/450	60 FXD	48"	W/ Flare
PENN	P70SA-1C	12"/80	5/35	100/500	60 FXD	36"	W/ Flare
ALCO	FF215-S7 BAUK	15"/100	7/70	90/450	60 FXD	48"	W/ Flare
ALCO	PS2-Y7K	15"/100	7/70	90/450	60 FXD	48"	W/ Flare
PENN	P70SA-1C	12"/80	5/35	100/500	60 FXD	36"	W/ Flare
ALCO	FF215-S7 BAUA	15"/100	7/70	90/450	60 FXD	None	External Flare
ALCO	PS2-Y7A	15"/100	7/70	90/450	60 FXD	None	External Flare
PENN	P170SA-1C	12"/80	5/35	100/500	60 FXD	None	External Flare

Figure 3: Dual Pressure Controls



Table 4: Lube Oil Pressure Controls

Product	#	Range	Reset	Delay	Capillary	Connection	Cover
ALCO	FD113-ZUK	4/65 ADJ	Manual	20-150 secs.	36"	W/ Flare	NEMA 1
PENN	P28AA-**C (See Table 5)	8/70 ADJ	Manual	See Table 5.	36"	W/ Flare	NEMA 1
PENN	P45NCA-12C (See Table 5)	9.0 FXD	Manual	120 secs.	36"	W/ Flare	NEMA 1
PENN	P45NCA-82C (See Table 5)	6.5 FXD	Manual	45 secs.	36"	W/ Flare	NEMA 1
ALCO	FD113-ZU	4/65 ADJ	Manual	20-150 secs.	None	External Flare	NEMA 1
PENN	P128AA-**C (See Table 5)	8/70 ADJ	Manual	See Table 5.	None	External Flare	NEMA 1
PENN	P145NCA-12C (See Table 5)	9.0 FXD	Manual	120 secs.	None	External Flare	NEMA 1
PENN	P145NCA-82C (See Table 5)	6.5 FXD	Manual	45 secs.	None	External Flare	NEMA 1

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Figure 4: Lube Oil Pressure Controls



Choose correct control below based on timing required and desired pressure connector. Verify timing specifications.

Table 5: Products and pressure connections

Product	#	Timing	Measurements	Pressure connection
P28AA-1	8/70#	90 Secs.	36"	W/ Flare
P28AA-2	8/70#	60 Secs.	36"	W/ Flare
P28AA-17	8/70#	120 Secs.	36"	W/ Flare
P28AA-18	8/70#	45 Secs.	36"	W/ Flare
P128AA-1	8/70#	90 Secs.	None	External Flare
P128AA-2	8/70#	60 Secs.	None	External Flare
P128AA-17	8/70#	120 Secs.	None	External Flare

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Single point of contact

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