

A photograph of a train at sunset. The sky is filled with vibrant orange and red clouds. In the foreground, a signal light pole stands on a gravel track, with two red lights illuminated. The train is blurred, suggesting motion.

Vital Neutral Relays

Direct Current (DC) Relay For Line And Track Applications

Vital Neutral Release Relays are energized by current of either polarity and address a wide range of train control circuit applications.



KB SIGNALING™

Vital Neutral Relays

General Description

KB Signaling's AREMA-compliant Vital Neutral Relays are "regular release" DC relays, with normal pickup and release times. After the specified energy has been applied to one of these relays, no time delay is required to close the front contacts (pickup). When the specified energy is removed, the front contacts release without a delay.

The Vital Neutral Relays are offered in a wide assortment of coil resistances, contact arrangements, and contact materials in B1 and B2 sizes. The relay's clear housing allows maintainers to view the mechanical components to determine whether the relay has picked up or released. This relay is plugboard mounted for easy installation and testing. KB Signaling's B-Series relays have the same wiring terminal connectors, mounting hardware and installation tools. For additional information on KB Signaling Vital Neutral Relays, refer to publication P1457.



Contact Group Characteristics

Contacts	Nominal Resistance Ω	Max Pick-up (Amps)	Application notes	Ordering Information		Replacement Ordering: Contact Group Nos. 56012-108 *		
				Relay Catalog No.	Relay Part No.	1	2	3
2f-1B	1400	0.0033	Line Circuit	A62-0324	56001-911-01			
			Line Circuit, Shock Indication	A62-0719	56001-911-02		-02	
4F-2B	350	0.009		A62-0300	56001-789-05	-02		-02
2fb-1B-2F	500	0.0165	AgC-S EHD Mag-Blowout on 2F Contacts	A62-0546	56001-881-01	-47	-56	-47
4FB-2F-1B	900	0.0088		A62-0308	56001-783-01			
	500	0.0126		A62-0277	56001-783-02			
	100	0.0201	VPI. iCPI, VRD	A62-0319	56001-787-05	-06	-02	-06
	84	0.0204	Line Circuit	A62-0305	56001-785-37			
	50	0.037		A62-0315	56001-872-01			
	4	0.0935	Track Circuit	A62-0276	56001-787-01			
	1.8	0.137		A62-0275	56001-787-02			
	900	0.0088	HD Front & Back Contacts	A62-0311	56001-822-01	-09	-03	-09
	500	0.0127		A62-0310	56001-822-02			
	350	0.0143		A62-0309	56001-822-06			
4FB-2FB	500	0.0165	Lamp Control with 2FB Safety Front Contacts	A62-0741	56001-983-01	-40	-40	-06
6FB	900	0.0088		A62-0296	56001-762-01	-06	-06	-06
			Shock Indication	A62-0717	56001-762-08			
6FB	500	0.0126		A62-0262	56001-762-02			
	84	0.0205	Line Circuit	A62-0295	56001-785-31			
	4	0.094	Track Circuit	A62-0261	56001-714-01			
	1.8	0.136		A62-0260	56001-714-03			
	500	0.0165	Lamp Control	A62-0580	56001-951-01	-40	-40	-40
	500	0.0126	HD Front & Back Contacts	A62-0681	56001-978-01	-09	-09	-09

Note: Shaded catalog number and part number is discontinued.

Vital Neutral Relays

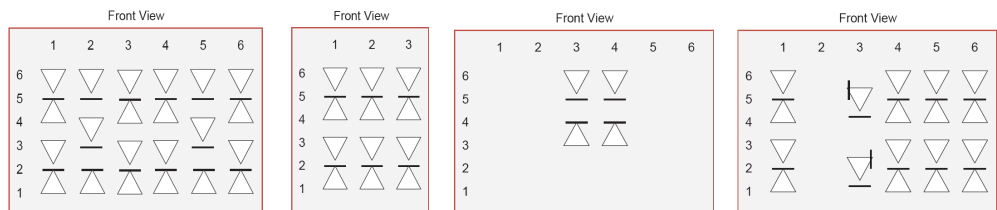
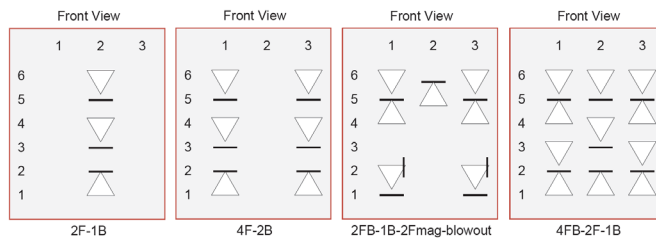
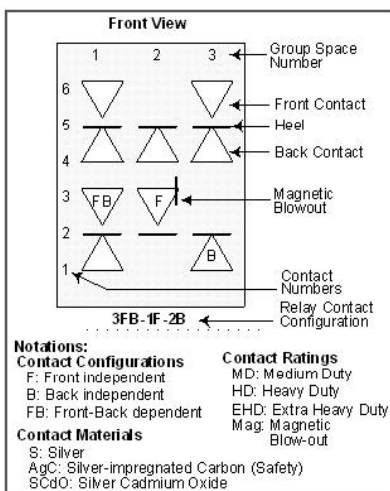
Size B2 Relay Ordering Information

Contacts	Nominal Resistance Ω	Max Pick-up (Amps)	Application notes	Ordering Information		Replacement Ordering: Contact Group Nos. 56012-108 *					
				Relay Catalog No.	Relay Part No.	1	2	3	4	5	6
12FB	500	0.0108		A62-0330	56002-703-01	-06	-06	-06	-06	-06	-06
8FB-4F-2B	500	0.0176	HD safety fronts and backs	A62-0619	56002-724-01	-07	-04	-07	-07	-04	-07
8FB-2F	330	0.031	AgC-S EHS Mag Blowout on 2F contacts	A62-0331	56002-710-01	-06		-42	-06	-06	-06

Note: Shaded catalog number and part number is discontinued.

Contact Group Characteristics

Contact Group Number	Contact Config	Front Contacts	Back Contacts
-02	2F-1B	AgC-S (MD)	S-S (HD)
-03	2F-1B	AgC-S (HD)	S-S (HD)
-04	2F-1B	AgC-S (HD)	S-AgC (HD)
-06	2FB	AgC-S (MD)	S-S (HD)
-07	2FB	AgC-S (HD)	S-AgC (HD)
-09	2FB	AgC-S (HD)	S-S (HD)
-40	2FB	SCdO-SCdO (HD)	SCdO-SCdO (HD)
-42	2F	AgC-S Mag (EHD)	
-47	1FB 1F	AgC-S (MD) AgC-S Mag (EHD)	S-S (HD)
-56	1B		S-S (MD)



Contact your KB Signaling Business Development Manager
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