

High-Performance Power Contactors

*for aerospace, military and
transportation applications*



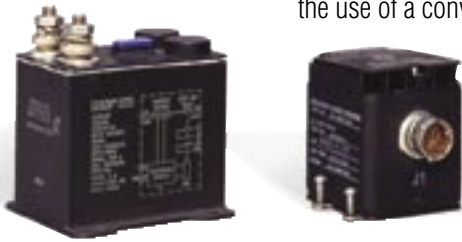
A Leader in High-performance Contactors

Since the 1960s, Leach International has been a world leader in contactor technology innovations, including the balanced armature contactor design that has become the standard switching device for jet aircraft. Leach's ongoing technological advancements have resulted in a selection of contactors rated from 25 to 1000 Amps and offered in a variety of configurations and power terminations. The use of these high-performance products in more than 100 aircraft types worldwide is evidence of their reputation for quality and reliability.

Contactor Enhancement Features

Leach has maintained its nearly 50-year position of leadership by continually expanding its contactor product line with state-of-the-art enhancements:

- **Smart Contactors** — electronically enhanced hybrid devices combining standard production relays with an electronic module and sensor that enable a contactor to interface with onboard computers. Their primary purpose is to control the flow of power without the use of a conventional circuit breaker



panel. They can be configured to respond to I²t curves, current, voltage or power. This capability

can be adapted to most Leach contactor configurations for a variety of modes, depending upon the particular application. Smart devices are available from 25 to 305 Amps, single and 3-phase AC, and up to 1000 Amps DC.

- **Line Replaceable Contactors** — feature a plug-in plunger interface for quick-change installation. Designed to withstand severe vibration, shock and thermal environments, these lightweight contactors are ideal for high reliability aircraft operations.



- **Busbar Contactors** — compact, lightweight busbar-mount AC contactors can be upgraded with microprocessor intelligence, integrated circuitry and protection circuitry.



- **Ground Fault Interrupt** — allows devices to sense ground faults and phase-to-phase shorts through the use of a proprietary circuit design.



They include Built-in-test and trip indicator features that provide visual verification that fault sensing is working, as well as visual indication of a fault.

Packaging for Unique Requirements

As part of its value-added services, Leach can individually qualify its contactor products, adapt components to customers' exact specifications, and package its devices to fulfill unique power distribution assembly requirements.



(Information contained in this brochure is for initial guidance purpose only. Please request more comprehensive data, specific application usage information, or a Product Control Drawing (PCD) from Leach International.)

AC DEVICES (Hermetically Sealed)					
Leach Series:	H	L	Z	ZJ	W
Nominal Rating Amps:	60	90	120	180	274
Contact Configuration	3PDT/3PNO	3PDT/3PNO	3PDT/3PNO	3PDT/3PNO	3PDT/3PNO
Designed to:	MIL-PRF-6106	MIL-PRF-6106	MIL-PRF-6106	MIL-PRF-6106	MIL-PRF-6106
Electrical Data:	H	L	Z	ZJ	W
Resistive Contact Rating: @ 28VDC	50	50	50	50	125
@ 115VAC, 400 Hz, 3 phase	60	90/120	120	180	275
@115VAC, 50/60 Hz, 3phase	30			60	
Maximum Operate Time (ms):					
DC Coil:	35/50	40	60	60	60
AC Coil:	35/50	40	60	60	60
Environmental Data:	H	L	Z	ZJ	W
Sinusoidal Vibration (G):	10 (70-2000 Hz)	10 (55-1000 Hz)	10 (55-1000 Hz)	10 (55-1000 Hz)	10 (55-1000 Hz)
Shock (G):	30	15	20	15	15
Mechanical Data:	H	L	Z	ZJ	W
Weight, max. (lbs)	0.875	1.7	2.82	2.82	4.5
Dimensions, max. (in)	3.2 x 3.2 x 2.8	3.3 x 3.6 x 3.4	4.8 x 4.3 x 4.2	4.8 x 4.3 x 4.2	5.6 x 4.1 x 4.7
Option(s) Available:	Latched	Latched	Latched	Latched	Solenoid
	Center Off	Center Off	Center Off	Center Off	Latched
	GFI/Over Current		Plug In/ELCU		Center Off
DC DEVICES					
Leach Series:	P*	AJ*	CC02, CC040	7064, 7264, 7401	77, 219, 507
Rating Amps:	200	400	200/400	50/200/400	80/200/500
Contact Configuration	1PST(DM)	1PST(DM)	1PST(DM)	1PST(DM)	1PST(DM)
Designed to:	MIL-PRF-6106	MIL-PRF-6106	MIL-PRF-6106	MIL-PRF-6106	MIL-PRF-6106
Electrical Data:	P*	AJ*	CC02, CC040	7064, 7264, 7401	77, 219, 507
Resistive Contact Rating: @ 28VDC	200	400	200/400	50/200/400	80/200/500
Maximum Operate Time (ms):	28	35	30	25	20
Environmental Data:	P*	AJ*	CC02, CC040	7064, 7264, 7401	77, 219, 507
Sinusoidal Vibration (G):	10 (70-2000 Hz)	10 (75-500 Hz)	10 (5-200 Hz)	2 (55 to 500 Hz)	10 (5 to 2000 Hz)
Shock (G):	50	25	30	25	30
Mechanical Data:	P*	AJ*	CC02, CC040	7064, 7264, 7401	77, 219, 507
Weight, max. (lbs):	1.1	1.75	0.66	0.59/1.25/2.6	0.38/0.82/1.81
Dimensions, max. (in)	2.9 x 3.7 x 3.9	3.7 x 3.9 x 3.4	2.87 x 1.61 x .31	see catalog data sheets	see catalog data sheets
Option(s) Available:		Engine Start	RCCB	2PST(DM) [7064 only]	Engine Start
		Reverse Current			
* Hermetically sealed.					
NOTE: Above data is a guide only. Please refer to specific data sheets or print control drawings for exact configuration required. Consult factory for other contactor models or variants of the above contactors with a variety of auxiliary contact options.					

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