

ENGINEERINGUPDATE



PRODUCT: G3VM -AY, DY, DY(TR) All Models - MOS FET Relays NO: **REL - 237**

DATE: February 2021 TYPE: **Discontinuation - Streamline Product Offering**

G3VM –AY, DY, DY(TR) All Models MOS FET Relays – DISCONTINUATION

In an effort to streamline our product offering and focus on popular models of Omron's line of MOS FET Relays, OMRON will discontinue all models of G3VM -AY, DY, DY(TR) at the end of February 2022. The suggested replacements are listed below, which despite differences in some characteristics, can be considered to be functional equivalents. Please carefully read through this notification and note the differences. The following details will fully explain the discontinuation and suggested replacement considerations; should you have any additional questions, however, please communicate with the Relay Product Manager, Zac Hendrix.

LAST Order date (Last Time Buy Date)

February 28, 2022

Product Discontinuation

MOS FET Relay

Model G3VM-41AY

Model G3VM-41DY

Model G3VM-41DY(TR)

Model G3VM-61AY

Model G3VM-61DY

Model G3VM-61DY(TR)

Model G3VM-201AY

Model G3VM-201DY

Model G3VM-201DY(TR)

Model G3VM-351AY **Model G3VM-351DY**

Model G3VM-351DY(TR)

Model G3VM-401AY **Model G3VM-401DY**

Model G3VM-401DY(TR)

Model G3VM-601AY

Model G3VM-601DY

Model G3VM-601DY(TR)

Suggested Replacement

MOS FET Relay

Model G3VM-41AY1

Model G3VM-41DY1

Model G3VM-41DY1(TR05)

Model G3VM-61AY1

Model G3VM-61DY1

Model G3VM-61DY1(TR05)

Model G3VM-201AY1

Model G3VM-201DY1

Model G3VM-201DY1(TR05)

Model G3VM-351AY1

Model G3VM-351DY1

Model G3VM-351DY1(TR05)

Model G3VM-401AY1

Model G3VM-401DY1

Model G3VM-401DY1(TR05)

Model G3VM-601AY1

Model G3VM-601DY1

Model G3VM-601DY1(TR05)

Differences from discontinued product:

Suggested replacement Model	Body Color	Dimen -sions	Wire connection	Mounting Dimensions	Charact -eristics	Operation ratings	Operation methods
Model G3VM-41AY1 Model G3VM-41DY1 Model G3VM-41DY1(TR05)	**	**	**	**	**	*	**
Model G3VM-61AY1 Model G3VM-61DY1 Model G3VM-61DY1(TR05)	**	**	**	**	**	*	**
Model G3VM-201AY1 Model G3VM-201DY1 Model G3VM-201DY1(TR05)	**	**	**	**	**	*	**
Model G3VM-351AY1 Model G3VM-351DY1 Model G3VM-351DY1(TR05)	**	**	**	**	**	*	**
Model G3VM-401AY1 Model G3VM-401DY1 Model G3VM-401DY1(TR05)	**	**	**	**	**	*	**
Model G3VM-601AY1 Model G3VM-601DY1 Model G3VM-601DY1(TR05)	**	**	**	**	**	*	**

**: Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

Details of Applicable Models (Including but not limited to):

Discontinued Product	Suggested Replacement
Model G3VM-41AY	Model G3VM-41AY1
Model G3VM-41DY	Model G3VM-41DY1
Model G3VM-41DY(TR)	Model G3VM-41DY1(TR05)
Model G3VM-61AY	Model G3VM-61AY1
Model G3VM-61DY	Model G3VM-61DY1
Model G3VM-61DY(TR)	Model G3VM-61DY1(TR05)
Model G3VM-201AY	Model G3VM-201AY1
Model G3VM-201DY	Model G3VM-201DY1
Model G3VM-201DY(TR)	Model G3VM-201DY1(TR05)
Model G3VM-351AY	Model G3VM-351AY1
Model G3VM-351DY	Model G3VM-351DY1
Model G3VM-351DY(TR)	Model G3VM-351DY1(TR05)
Model G3VM-401AY	Model G3VM-401AY1
Model G3VM-401DY	Model G3VM-401DY1
Model G3VM-401DY(TR)	Model G3VM-401DY1(TR05)
Model G3VM-601AY	Model G3VM-601AY1
Model G3VM-601DY	Model G3VM-601DY1
Model G3VM-601DY(TR)	Model G3VM-601DY1(TR05)

Body Color:

Discontinued Product	Suggested Replacement
G3VM –AY, DY, DY(TR) / All Models	G3VM –AY1, DY, DY1(TR05) / All Models
Black	Black

Wire Connection:

Discontinued product G3VM –AY, DY, DY(TR) / All Models	Suggested Replacement G3VM –AY1, DY, DY1(TR05) / All Models
DIP4 (SPST-NO contact type)	DIP4 (SPST-NO contact type)
932 1 2	Same

Mounting Dimensions:

Mounting Dimensions:			
	ed Product Y(TR) / All Models		Replacement '1(TR05) / All Models
Through-hole Models (-AY)	Surface Mount Models (-DY)	Through-hole Models (-AY1)	Surface Mount Models (-DY1)
Bottom View	Top View	Bottom View	Top View
Four, 0.8-dia. holes -2.54 (0.61) 2.54 (0.61) (1.52) (1.52)	2.54	Same	Same

Dimensions:

Discontinu G3VM –AY, DY, D	ed Product /(TR) / All Models	Suggested Replacement G3VM –AY1, DY, DY1(TR05) / All Models						
7.62.025 0.8.025 0.8.025 0.5.015 1.2.015 7.85 to 8.80	3.65-0.15 1.2-0.15 2.54-0.25 1.0 min. 1.0 min.	Through-hole Models (-AY1) Same	Surface Mount Models (-DY1) Same					

				Pr	oduct Disc	ontinuati	on	Red	ommend	ed Repla	cement
	Item			G3VM-41AY G3VM-41DY G3VM-41DY(TR)				G3VM-	G3VM-41DY1 G3VM-41DY1(TR05)		
Туре										٠	
Pa	ckage				DIF	24			I	DIP4	
Co	ontact form				1a(SPS	T-NO)			1a(S	PST-NO)	
Те	rminal structure			PCB Te	erminals		mounting ninals	PCB Te	erminals		ce-mounting erminals
Abso	lute maximum Rating	Symbol	Unit		Rati	ng			R	ating	
	LED forward current	IF	mA		30)				30	
Input	Repetitive peak LED forward current	I _{FP}	Α		1				1		
	LED reverse voltage	V _R	٧		5				5		
Output	Load Voltage(AC/DC)	V _{OFF}	٧		40				40		
ō	Continuous load current	Io	mA	2,000 5,000				2,000 5,000			
Die	electric strength between input and output	V _{I-O}	Vrms								
Ор	erating Temperature	Ta	°C	-40		~ + 85		-40		~	+ 85
Sto	orage Temperature	T _{stg}	°C	-55		~ + 125		-55		~	+ 125
Elect	rical Characteristics	Symbol	Unit	Min.	Ту	Э.	Max	Min.	Ту	p.	Max
	LED Forward voltage	V _F	٧	1.45	1.6	3	1.75	1.1	1.2	27	1.4
Input	Trigger LED Forward Current	I _{FT}	mA	0.3	_		2	0.5	-	-	3
	Release LED Forward Current	I _{FC}	mA	0.1	_		-	0.1	-	-	-
_	Maximum resistance with output ON	R _{ON}	Ω	-	0.0	9	0.15	-	0.0)9	0.15
Output	Current leakage when the relay is open	I _{LEAK}	uA	-	-		1	-	-	-	1
	Capacity between terminals	C _{OFF}	pF	-	30	0	-	-	30	00	-
Ca	apacity between I/O terminals C _{I-O}		pF	-	0.8	3	-	-	0.	8	-
Ins	nsulation resistance between I/O terminals		МΩ	1000	1.00E	+08	-	1000	1.00E	E+08	-
Tur	n-ON time	t _{ON}	ms	-	2		5	-	2.	8	5
Tur	n-OFF time	t _{OFF}	ms	-	0.3	3	1	-	0.	3	1

				Pro	oduct Disc	ontinuat	ion	Red	commend	ed Repla	cement
	Item			G3VM-	G3VM-61AY G3VM-61DY G3VM-61DY(TR)			G3VM-	VM-61AY1 G3VM-61DY1 G3VM-61DY1(TR05)		
/ре											
Pa	ackage				DIF	P4				DIP4	
Co	ontact form				1a(SPS	T-NO)			1a(S	PST-NO)	
Те	erminal structure			PCB Terminals Surface-mounting Terminals				PCB Te	rminals		ace-mounting Ferminals
oso	lute maximum Rating	Symbol	Unit		Rati	ng			F	Rating	
	LED forward current	I _F	mA		30)				30	
Input	Repetitive peak LED forward current	I _{FP}	Α		1					1	
	LED reverse voltage	V _R	٧		5					5	
Output	Load Voltage(AC/DC)	V _{OFF}	٧	60				60			
ð	Continuous load current	Io	mA		50	0		500			
Die	ielectric strength between input and output V _{I-O}				5,0	00				5,000	
Ор	perating Temperature	Ta	°C	-40	~	,	+ 85	-40		~	+ 85
Sto	orage Temperature	T _{stg}	°C	-55		~ + 125		-55		~	+ 125
lect	rical Characteristics	Symbol	Unit	Min.	Ту	ο.	Max	Min.	Ту	p.	Max
	LED Forward voltage	V _F	٧	1.45	1.6	3	1.75	1.1	1.2	27	1.4
Input	- Trigger LED Forward Current	I _{FT}	mA	0.3	_		2	0.6	_	-	3
	Release LED Forward Current	I _{FC}	mA	0.1			-	0.1	-	-	-
_	Maximum resistance with output ON	R _{ON}	Ω	-	0.	6	2	-	0.	6	2
Output	Current leakage when the relay is open	I _{LEAK}	uA	-	_		1	-	_	-	1
	Capacity between terminals	C _{OFF}	pF	-	13	0	-	-	13	30	-
Ca	Capacity between I/O terminals C _{I-O} pF		pF	-	0.	3	-	-	0.	8	-
Ins	nsulation resistance between I/O terminals R_{I-O} $M\Omega$		МΩ	1000	1.00E	+08	-	1000	1.00	E+08	-
Tur	rn-ON time	t _{ON}	ms	-	0.	5	1	-	1		3
Tur	rn-OFF time	t _{OFF}	ms	-	0.:	2	1	-	0.	2	1

				Pro	oduct Dis	continuat	ion	Re	commend	ded Repl	acement
	Item			G3VM-	201AY	G3VM-201 G3VM-201		G3VM-2	201AY1	G3VM-2 G3VM-2	01DY1 01DY1(TR05)
уре											
Pa	ckage				D	IP4				DIP4	
Co	ontact form				1a(SP	ST-NO)			1a(\$	SPST-NO)	1
Те	rminal structure			PCB Te	PCB Terminals Surface-mountin Terminals			PCB Te	rminals		ace-mounting Terminals
oso	lute maximum Rating	Symbol	Unit		Ra	ting				Rating	
	LED forward current	I _F	mA		;	30				30	
Input	Repetitive peak LED forward current	I _{FP}	Α			1				1	
	LED reverse voltage	V _R	٧			5				5	
Output	Load Voltage(AC/DC)	V _{OFF}	٧		2	00		200			
ō	Continuous load current	Io	mA		2	50		250			
Die	Dielectric strength between input and output V _{I-C}				5,	000				5,000	
Ор	erating Temperature	Ta	°C	-40 ~ +85			+ 85	-40		~	+ 85
Sto	orage Temperature	T _{stg}	°C	-55	−55 ~ + 125		+ 125	−55 ~ + 125		+ 125	
ect	rical Characteristics	Symbol	Unit	Min.	T	yp.	Max	Min.	Ту	p.	Max
	LED Forward voltage	V _F	V	1.45	1	.63	1.75	1.1	1.2	27	1.4
Input	Trigger LED Forward Current	I _{FT}	mA	0.3		_	2	0.6	-	-	3
	Release LED Forward Current	I _{FC}	mA	0.1		_	-	0.1	-	-	-
Ŧ	Maximum resistance with output ON	R _{ON}	Ω	-		5	8	-	5	j	8
Output	Current leakage when the relay is open	I _{LEAK}	uA	-		_	1	-	-	-	1
	Capacity between terminals	C _{OFF}	pF	-	,	90	-	-	90	0	-
Ca	apacity between I/O terminals		pF	-	().8	-	-	0.	8	-
Ins	sulation resistance between I/O terminals R		МΩ	1000	1.00	E+08	-	1000	1.00E	E+08	-
Tur	rn-ON time	t _{ON}	ms	-	().5	1	-	1		3
Tur	n-OFF time	t _{OFF}	ms	-).2	1	_	0.	1	1

			Pro	duct Disc	ontinuat	ion	Recommended Replacement				
	Item			G3VM−3		33VM-351 33VM-351		G3VM-	-351AY1 G3VM-351DY1 G3VM-351DY1(TR05)		
уре											
Pa	ackage				DIP	4				DIP4	
Co	ontact form				1a(SPS	Γ-NO)			1a(SPST-NO)
Te	erminal structure			PCB Terr	minals		-mounting minals	PCB Te	rminals	Sur	face-mounting Terminals
bso	lute maximum Rating	Symbol	Unit		Ratii					Rating	
	LED forward current	I _F	mA		30					30	
Input	Repetitive peak LED forward current	I _{FP}	Α		1					1	
	LED reverse voltage	V _R	V		5					5	
put	Load Voltage(AC/DC)	V _{OFF}	V		350		350				
ō	Load Voltage(AC/DC) Continuous load current		mA		100		100				
Di	electric strength between input and output	V _{I-O}	Vrms		5,00	0				5,000	
Op	perating Temperature	Ta	ွင	-40 ~ +85			-40		~	+ 85	
Sto	orage Temperature	T _{stg}	ွင	-55		~ + 125		-55		~	+ 125
lect	rical Characteristics	Symbol	Unit	Min.	Тур	١.	Max	Min.	Ту	rp.	Max
	LED Forward voltage	V _F	V	1.45	1.6	3	1.75	1.1	1.5	27	1.4
Input	Trigger LED Forward Current	I _{FT}	mA	0.3	_		2	0.6	-	-	3
	Release LED Forward Current	I _{FC}	mA	0.1	-		-	0.1	-	-	-
=	Maximum resistance with output ON	R _{ON}	Ω	-	35		50	-	3	5	50
Output	Current leakage when the relay is open	I _{LEAK}	uA	-	-		1	-	-	-	1
Ĺ	Capacity between terminals		pF	-	30		-	-	3	0	-
Ca	apacity between I/O terminals C_{I-O} p		pF	-	0.8		-	-	0.	.8	-
Ins	sulation resistance between I/O terminals	R _{I-O}	МΩ	1000	1.00E	+08	-	1000 1.00E+08		E+08	-
Tu	rn-ON time	t _{ON}	ms	-	0.1		1	-	0.	.3	2
Tu	rn-OFF time	t _{OFF}	ms	-	0.2	·	1	-	0.	.1	1

				Pro	oduct Dis	continuat	ion	Red	commend	ded Repla	cement
	Item			G3VM−	401AY	G3VM-401 G3VM-401		G3VM-4	401AY1	G3VM-4 G3VM-4	01DY1 01DY1(TR05)
уре											
Pa	ckage				DII	P4				DIP4	
Co	ontact form				1a(SPS	ST-NO)			1a(S	SPST-NO)	
Те	rminal structure			PCB Te	rminals		-mounting ninals	PCB Te	rminals		ace-mounting Ferminals
bso	lute maximum Rating	Symbol	Unit		Rat					Rating	
	LED forward current	I _F	mA		3	0				30	
Input	Repetitive peak LED forward current	I _{FP}	А		1					1	
	LED reverse voltage	V _R	V		Ę	j				5	
Output	Load Voltage(AC/DC)	V _{OFF}	V	400				400			
ŏ	Continuous load current	Io	mA	120				120			
Die	electric strength between input and output	V _{I-O}	Vrms		5,0	00				5,000	
Ор	erating Temperature	Ta	°C	-40 ~ +85			-40		~	+ 85	
Sto	orage Temperature	T _{stg}	°C	-55	−55 ~ + 125			−55 ~ + 125			+ 125
lect	rical Characteristics	Symbol	Unit	Min.	Ту	p.	Max	Min.	Ту	γp.	Max
	LED Forward voltage	V _F	V	1.45	1.0	33	1.75	1.1	1.3	27	1.4
Input	Trigger LED Forward Current	I _{FT}	mA	0.3	-	-	2	0.6	-	-	3
	Release LED Forward Current	I _{FC}	mA	0.1	-	-	-	0.1	-	-	-
Ţ	Maximum resistance with output ON	R _{ON}	Ω	-	2	2	35	-	2	2	35
Output	Current leakage when the relay is open	I _{LEAK}	uA	-	-	-	1	-	-	-	1
	Capacity between terminals	C _{OFF}	pF	-	8	0	-	-	8	0	-
Ca	pacity between I/O terminals	C _{I-O}	pF	-	0.	8	-	-	0	.8	-
Ins	ulation resistance between I/O terminals	R _{I-O}	МΩ	1000	1.00	E+08	-	1000	1.00	E+08	-
Tur	n-ON time	t _{ON}	ms	-	0.	2	1	-	0	.6	2
Tur	n-OFF time	t _{OFF}	ms	-	0.	2	1	-	0	.2	1

				Pro	oduct Dis	continuat	tion	Re	commend	ded Repla	acement
	Item			G3VM-	601AY	G3VM-60 G3VM-60		G3VM-6	601AY1	G3VM-6 G3VM-6	01DY1 01DY1(TR05)
уре											
Pa	nckage				DI	P4				DIP4	
Со	ontact form				1a(SPS				1a(\$	SPST-NO)	
Те	rminal structure			PCB Tei	rminals		-mounting minals	PCB Te	rminals		ace-mounting Terminals
bsol	lute maximum Rating	Symbol	Unit		Rat					Rating	
	LED forward current	I _F	mA		3	0				30	
Input	Repetitive peak LED forward current	I _{FP}	Α			1				1	
	LED reverse voltage	V _R	V		;	5				5	
Output	Load Voltage(AC/DC)	V _{OFF}	V		60	00		600			
ō	Continuous load current	Io	mA		9	0		90			
Die	electric strength between input and output	V _{I-O}	Vrms			5,000					
Op	perating Temperature	Ta	င	-40 ~ +85			+ 85	-40		~	+ 85
Sto	orage Temperature	T _{stg}	သိ	-55	−55 ~ + 125			-55 ~ + 125			+ 125
lecti	rical Characteristics	Symbol	Unit	Min.	Ту	rp.	Max	Min.	Ту	p.	Max
	LED Forward voltage	V _F	V	1.45	1.	63	1.75	1.1	1.5	27	1.4
Input	Trigger LED Forward Current	I _{FT}	mA	0.3	-	-	2	0.5	-	-	3
	Release LED Forward Current	I _{FC}	mA	0.1	-	-	-	0.1	-	-	-
Ŧ	Maximum resistance with output ON	R _{on}	Ω	-	4	5	60	-	4	5	60
Output	Current leakage when the relay is open	I _{LEAK}	uA	-	-	-	1	-	-	-	1
	Capacity between terminals	C _{OFF}	pF	-	7	5	-	-	7	5	-
Cap	apacity between I/O terminals C _{I-O}		pF	-	0	.8	-	-	0.	8	-
Ins	ulation resistance between I/O terminals	R _{I-O}	ΜΩ	1000	1.00	E+08	-	1000	1.00	E+08	-
Tur	rn-ON time	t _{ON}	ms	-	0	.2	1	-	0.	5	2
Tur	n-OFF time	t _{OFF}	ms	-	0	.2	1	-	0.	2	1

Specifications in this product news are as of the issue date and are subject to change without notice.

Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.

This PCN is intended for use in the Americas

Last time buy dates are subject to change based on availability

^{*} Sales teams should communicate this discontinuation with their OEM's and CEM's. For further technical support and any questions, please communicate with Product Marketing.